



# Search Report

**EIC 3700**

STIC Database Tracking Number: 237132

**To:** CHERYL LEWIS  
**Location:** RND-3B07  
**Art Unit:** 2167  
**Wednesday, September 12, 2007**

**Case Serial Number:** 10/797586

**From:** EMORY DAMRON  
**Location:** EIC3700  
**RND-8B31 / RND-8B21**  
**Phone:** (571)272-3520

**emory.damron@uspto.gov**

## Search Notes

Cheryl-

Please find below your search results.

References of potential pertinence have been tagged, but please review all the packets in case you like something I didn't.

Of those references which have been tagged, please note any manual highlighting which I've done within the document.

There may be a few decent references contained herein, but I'll let you determine how useful they may be to you.

Please contact me if I can refocus or expand any aspect of this case, and please take a moment to provide any feedback (on the form provided) so EIC 3700 may better serve your needs.

Good Luck!

Sincerely,

Emory Damron

Technical Information Specialist

EIC 3700, US Patent & Trademark Office

Phone: (571) 272-3520

[emory.damron@uspto.gov](mailto:emory.damron@uspto.gov)



237132

# STIC EIC 2100

## Search Request Form

Today's Date: 9/11/2007

What date would you like to use to limit the search?

Priority Date: 4/1/2003 Other:

Name Cheryl Lewis  
AU 2147 Examiner # 12314  
Room # 3301 Phone 2-4113  
Serial # 10/1991, 586

Format for Search Results (Circle One):

 PAPER      DISK      EMAIL

Where have you searched so far?

 USP      DWPI      EPO      JPO      ACM      IBM TDB  
IEEE      INSPEC      SPI      Other \_\_\_\_\_Is this a "Fast & Focused" Search Request? (Circle One)  YES      NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES  NOIs this case a SPECIAL CASE? (Circle One) YES  NO

See attached sheet

To 7/5Yaffoo"SEARCH QUERY RANKING"

STIC Searcher Emmy Dan Ruz Phone 2-3520  
Date picked up 9/12/7 Date Completed 9/12/7

Set	Items	Postings	Description
S1	50770	145775	S OLD OR ARCHIV? OR PRESUBMIT? OR PRESUBMIS? OR PREENTER? OR PRE() (ENTER? OR SUBMIT? OR SUBMIS?)
S2	711467	1951757	S PRIOR? OR ERSTWHILE? OR EARLY OR EARLIER OR ANTECED? OR IN() ADVANC? OR PRELIMINAR?
S3	1342680	2761885	S BEFORE? OR PAST OR PREDAT? OR ANTEDAT? OR PRECEDING? OR PRECEDE? OR PREDECESS? OR PREVIOUS?
S4	150791	866363	S SEARCH?
S5	328143	1985055	S QUERY? OR INQUIR? OR SUBMISSION? OR REQUEST? OR INTERROGAT? OR SQL
S6	40508	183667	S QUESTION? OR ENQUIR? OR ASK OR ASKS OR ASKED OR ASKING OR DATA() (MINE? OR MINING)
S7	68560	230249	S DATAMIN? OR CRAWL? OR DATACRAWL? OR FETCH? OR QUERIE?
S8	1033590	5598466	S USER? OR ENDUSER? OR PARTICIPANT? OR PLAYER? OR PATRON? ? OR CUSTOMER?
S9	2287175	15827209	S CLIENT? OR SUBSCRIB?R? OR CONSUMER? OR PERSON? ? OR LICENSEE? OR MEMBER?
S10	644	6403	S ACCOUNT() HOLDER? OR WEBUSER? OR NETIZEN?
S11	8951	212812	S S1:S3 (10N) S4:S7 AND S1:S7 (10N) S8:S10
S12	703	5410	S RANK? OR PRIORITIZ? OR PRIORITIS? OR HIERARCH? OR HIERAT?
S13	706	5112	S WEIGHT? OR EIGENWEIGHT? OR RELEVAN? OR IMPORTANC? OR SCORE?
S14	456	3329	S SCORING? OR RATE? OR RATING? OR GRADE? OR GRADING
S15	18	264	S PECKING() ORDER OR TOTEM() POLE? OR TAXONOM?
S16	1554	7960	S RELATED? OR KINSHIP? OR CORRELAT? OR SIMILAR? OR LIKENESS? OR ALIKE? OR CONGRUENT? OR IDENTICAL?
S17	193	593	S CLOSENESS? OR SIGNIFIC? OR FREQUEN? (2N) DISTRIBUT? OR NEARNESS? OR PROXIMIT?
S18	460	2422	S DEPENDEN? OR GERMANE? OR PERTINEN? OR PREPONDERAN? OR RELATIONSHIP?
S19	2390	5260	S WHAT?
S20	1094	7128	S SUBJECT? OR TOPIC? ? OR CATEGORY OR CHARACTERISTIC? OR TRAIT?
S21	1625	17925	S ATTRIBUT? OR PARAMETER? OR VALUE? ? OR DESCRIPTOR? OR DIMENSION?
S22	612	6140	S PROFILE? OR CRITERI? OR GENRE? OR SUBCLASS? OR SUBDIVISION?
S23	578	4248	S CATEGORIZ? OR CATEGORIS? OR CATEGORY? OR CATEGORIE? OR SORT?
S24	1711	21033	S CLASSIF? OR PIGEONHOL? OR CONTENT? ?
S25	638	1852	S WHO OR WHOM
S26	2311	26402	S IDENTIT? OR SPECIFIC? () (PERSON? OR INDIVIDUAL?) OR DEMOGRAPH? OR IDENTIFI?
S27	813	5785	S ID OR NAME OR APPELLAT? OR USERID? OR PERSONA OR PERSONAS OR PERSONAE
S28	4100	16237	S WHEN?
S29	3421	22664	S TIME? OR HOUR? ? OR DAY? ? OR WEEK? ? OR TIMING
S30	4	30	S START? () POINT? (3N) (END OR ENDING) () POINT? OR STARTPOINT? (3N) ENDPOINT?
S31	624	3690	S CHRONOLOG? OR TEMPORAL? OR CLOCKTIME? OR REALTIME? OR DATE? ?
S32	3156	14506	S WHERE?
S33	918	8521	S LOCATION? OR GEOGRAPH? OR LOCALE? OR LOCALIT? OR VICINIT? OR TIMEZONE?
S34	869	6445	S COUNTRY? OR CITY? OR CITIE? OR COUNTRIE? OR STATE? OR NATION? ?
S35	1318	14304	S ADDRESS? OR DESTINATION? OR ZONE? OR RESIDENC? OR LATITUD? (2N) LONGITUD?
S36	254	466	S HISTOGRA? OR BARGRAPH? OR BAR()GRAPH? OR PIE()CHART? OR PIECHART? OR CHART???
S37	3	7	S GRAPHIC() REPRESENTATION? OR PICTOGRA? OR PICTO() (GRAPH? OR GRAM?)
S38	5662	44644	S STORE? OR STORING? OR SAVING? OR SAVE? OR COPY? OR STORAG?
S39	399	5129	S ARCHIVE? OR SPREADSHEET? OR KNOWLEDGE()BASE? ? OR INVENTORY? OR INVENTORIE? OR CONCORDANC?
S40	2024	22743	S REPOSITOR? OR DEPOSITOR? OR DATABASE? OR DATAFILE? OR

DATABANK?

S41 109 1135 S DATA() (REPOSITOR? OR HISTOR? OR COMPILATION? OR ARCHIV?)  
S42 956 10432 S DATASTOR? OR DATA() (BASE? OR STORAG? OR DEPOSITOR? OR FILE?  
OR BANK? OR RECORD?)  
S43 4129 63376 S SERVER? OR DATABASE? OR FILESERVER?  
S44 120 1322 S DATARECORD? OR DATA() (REGIST? OR FIELD?)  
S45 117 809 S DATALEDGER? OR LIBRAR? OR ADDRESS() BOOK? OR RESOURC? () POOL? ?  
S46 997 12223 S CHART? ? OR INDEX? OR DIRECTORY? OR ARCHIV? OR LEGEND? ? OR  
(LOOKUP OR LOOK() UP) () TABLE? OR LUT OR LUTS  
S47 23 104 S (CROSS OR X) () REFERENC? OR CROSSREFERENC? OR XREFERENC? OR  
CHRONICL?  
S48 5968 15030 S IC=G06F?  
S49 5571 14672 S MC=T01?  
S50 57 4328 S S11 AND (S19 AND S25 AND S28 AND S32)  
S51 401 57586 S S11 AND S12:S18 AND S19:S24 AND S25:S27 AND S28:S31 AND  
S32:S35 AND S36:S47  
S52 357 53572 S S51 AND S48:S49  
S53 401 73593 S S51:S52  
S54 266 55648 S S53 AND (S12:S18 AND S20:S24) (10N) S4:S7  
S55 92 23093 S S54 AND S26:S27 AND S29:S31 AND S33:S35  
S56 229 50798 S S54 AND S4:S7 (7N) S1:S3 AND S1:S7 (7N) S8:S10  
S57 226 55336 S S56 AND S19:S35 (10N) (S12:S18 OR S36:S47)  
S58 266 87096 S (S54 OR S56:S57) AND S1:S9 (7N) (S12:S18 AND S19:S24 AND  
S25:S27 AND S28:S35)  
S59 308 93574 S S50 OR S55 OR S58  
S60 274 91100 S S59 AND AY=1970:2003  
S61 235 67734 S S59 NOT AY=2004:2007  
S62 279 103232 S S60:S61  
S63 279 72663 IDPAT (sorted in duplicate/non-duplicate order)  
S64 279 72663 IDPAT (primary/non-duplicate records only)

; show files

[File 347] JAPIO Dec 1976-2007/Mar(Updated 070809)

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[File 350] Derwent WPIX 1963-2007/UD=200756

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\*File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.

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64/5,K/199 (Item 199 from file: 350) [Links](#)

Derwent WPIX

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0010361036 *Drawing available*

WPI Acc no: 2000-676892/200066

XRPX Acc No: N2002-343379

**Internet search result sorting for web browsing system, involves comparing IP address of user with each IP address of URL corresponding to search results, and sorting in order of relative distance from user to URL**

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: RYOO Y S; RYU Y

Patent Family ( 3 patents, 2 countries )

Patent Number	K i n d	in Date d	Application Number	K i n d	in Date d	Upda te	Ty p e
KR 1999066251	A	1999081 6	KR 19982019	A	1998012 3	20006 6	B
US 6377961	B	1 2002042 3	US 1999234370	A	1999012 1	20024 7	ET A B
KR 313462	B	2001123 1	KR 19982019	A	1998012 3	20025 2	E

Priority Applications (no., kind, date): KR 19982019 A 19980123

Patent Details

Patent Number	Ki n d	L a n	Pgs	Draw	Filing Notes	
KR 1999066251	A	K	O	6		
US 6377961	B1	E	N	8		
KR 313462	B	K	O		Previously issued patent	KR 990662 51

**Alerting Abstract US B1**

**NOVELTY** - An Internet protocol **address** of a **user** is compared with each Internet protocol **address** that respectively corresponds to a uniform resource locator that **identify** various servers containing information **relevant** to **user's search**. The results are **sorted** in an order of relative distance from the **user** to the uniform resource locator and the **sorted** result is transmitted.

**USE** - For **sorting** Internet **search** results in web **browsing**.

**ADVANTAGE** - Reduces **time** consumption required to determine the uniform resource locator that is **geographically** closest to the **user**, thereby enhancing existing web **search** engines, and increasing the expanding popularity of using Internet to gather useful information.

**DESCRIPTION OF DRAWINGS** - The figure shows the Internet protocol **address** and the **location** mapping table.

**Title Terms** /Index Terms/Additional Words: **SEARCH**; **RESULT**; **SORT**; **WEB**; **SYSTEM**; **COMPARE**; **IP**; **ADDRESS**; **USER**; **CORRESPOND**; **ORDER**; **RELATIVE**; **DISTANCE**

#### Class Codes

##### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-017/30;</b> <b>G06F-007/00</b>			Main		"Version 7"

US Classification, Issued: 707217000, 707003000, 709217000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-N02A1**; **T01-N03A1**; **T01-N03A2**

**Internet search result sorting for web browsing system, involves comparing IP address of user with each IP address of URL corresponding to search results, and sorting in order of relative distance from user to URL Alerting Abstract ...NOVELTY** - An Internet protocol **address** of a **user** is compared with each Internet protocol **address** that respectively corresponds to a uniform resource locator that **identify** various servers containing information **relevant** to **user's search**. The results are **sorted** in an order of relative distance from the **user** to the uniform resource locator and the **sorted** result is transmitted. **USE** - For **sorting** Internet **search** results in web **browsing**... ...**ADVANTAGE** - Reduces **time** consumption required to determine the uniform resource locator that is **geographically** closest to the **user**, thereby enhancing existing web **search** engines, and increasing the expanding popularity of using Internet to gather useful information... ...**DESCRIPTION OF DRAWINGS** - The figure shows the Internet protocol **address** and the **location** mapping table. **Title Terms** .../Index Terms/Additional Words: **SORT**; ... ...**ADDRESS**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date

**G06F-017/30... ...G06F-007/00** Main Manual Codes (EPI/S-X): **T01-N02A1... ...T01-N03A1...**

...**T01-N03A2** Original Publication Data by Authority**Original Abstracts**: A method starts with submitting an internet protocol **address** to a web **search** engine so that the **location** of a **user** can be determined. Then, a user inputs one or more keywords that can be used by the web search engine to compare with all of its generated **indexes**. After searching various **indexes**, the web search engine may find multiple uniform resource locators that **identify** various servers that contain information that may be **relevant** to the **user's search**. Then, the web **search** engine uses an internet protocol mapping table, that is generated

by the web **search** engine along with other data regarding various uniform resource locators prior to performing the requested search, to correlate the uniform resource locators with the geographical address of the server. Afterwards, the web **search** engine is able to **sort** the results of the **search** using the distance between the uniform resource locators and the **user**. Once the user has this information it is much simpler to determine which uniform resource locator may **correlate** with an easy to travel to business. This feature will enhance existing web search engines and thus, further increase the expanding popularity of using the...

**Claims:** A method for **sorting** internet search results, **comprising** the steps of: submitting an internet protocol **address** of a **user** to a web **search** engine; inputting at least one keyword that said web **search** engine uses to perform a **search**; searching a plurality of **indexes** utilizing said at least one keyword by said web **search** engine to find as a result any **uniform** resource locator that correlates to said at least one keyword; comparing said internet protocol address of said user with each internet protocol address that respectively... in an order of relative distance from the user each said internet protocol address determined in said comparing step that respectively corresponds to a uniform **resource** locator found in said searching step that **correlates** to said at least one keyword to generate a **sorted** result; and transmitting said **sorted** result to said **user**.>Basic Derwent Week: 200066

64/5,K/192 (Item 192 from file: 350) Links

Derwent WPIX

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0010576589 *Drawing available*

WPI Acc no: 2001-181100/200118

Related WPI Acc No: 2001-145942

XRPX Acc No: N2001-129041

**Client-side application classifier for computer networks, includes reporter which sends statistical information from application classifier tables to remote policy server on network**

Patent Assignee: DETERMINISTIC NETWORKS INC (DETE-N)

Inventor: JACKOWSKI S J; THOMAS C N

Patent Family ( 1 patents, 1 countries )

Patent Number	K	i n d	Application Number	Ki	n d	Date	Upda te	T y p e
US 6141686	A	2000103 1	US 199842306	A	19980313	20011 8		B
			US 1998103339	A	19980623			

Priority Applications (no., kind, date): US 199842306 A 19980313; US 1998103339 A 19980623

Patent Details

Patent Number	Ki	L	Pgs a n	Draw	Filing Notes	
US 6141686	A	E	26 N	12	C-I-P of application	US 199842306

#### Alerting Abstract US A

NOVELTY - Consolidator (60) coupled to application classifier plug-in (51) consolidates statistical information about network events collected by client-side application classifier, into application classifier tables which include current and historical tables. Reporter coupled to consolidator sends statistical information from application classifier tables to remote policy server on network.

DESCRIPTION - An application programming interface is provided to a Winsock-2 library (34) which provides higher level network functions to high level user applications by generating a socket for connecting to a remote machine on a network. A lower interface is provided to a network transport layer which formats data for transmission over the network. An extensible service provider (50) is coupled between the upper and lower interfaces to intercept network events. The application classifier plug-in examines network event intercepted and

collects statistical information about the network event. The statistical information includes an application **name** of one of high level **user** applications that caused the network event, a **time** stamp for network event, a byte count **when** the network event is a transfer of data over the network, **Internet addresses** and ports **when** the network event is a connection or data transfer and a process **identifier** of a running instance of high level **user** application. The application **classifier** tables include current tables for currently-running instances of applications and historical tables that include closed application. INDEPENDENT CLAIMS are also included for the following:

- A. network flow **classifying** method;
- B. network traffic **classification** program

**USE** - For computer networks such as Internet used by video conferencing, voice telephone calls, corporate **database queries**, mission-critical business transactions, for **identifying application traffic** signatures, signaling traffic **priorities** for **security** applications, financial applications.

**ADVANTAGE** - Enables **user** of cable modem to **request** a higher **level** of service from a **network**.

Prioritizes network traffic based on high level applications **and users** rather than low level **IP addresses** and **TCP ports**.

**DESCRIPTION OF DRAWINGS** - The figure shows the diagram of application **classifier**.

34 Winsock-2 **library**

50 Service provider

51 Application **classifier** plug-in

60 Consolidator

**Title Terms /Index Terms/Additional Words:** CLIENT; SIDE; APPLY; **CLASSIFY**; COMPUTER; NETWORK; REPORT; SEND; STATISTICAL; INFORMATION; TABLE; REMOTE; SERVE

#### Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-013/38			Main		"Version 7"
G06F-015/17			Secondary		"Version 7"

US Classification, Issued: 709224000, 709105000, 709229000, 709206000, 709301000, 709302000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-H07; T01-H07C; T01-H07P; T01-M02A1B

**Client-side application classifier for computer networks, includes reporter which sends statistical information from application classifier tables to remote policy server on network Original**

**Titles:** Client-side application-classifier gathering network-traffic statistics and application and **user** names using extensible-service provider plugin for policy-based network control. **Alerting Abstract ...NOVELTY** - Consolidator (60) coupled to application **classifier** plug-in (51) consolidates statistical information about network events collected by **client-side application classifier**, into application **classifier** tables which include current and historical tables. Reporter coupled to consolidator sends statistical information from

application classifier tables to remote policy server on network. DESCRIPTION - An application programming interface is provided to a Winsock-2 library (34) which provides higher level network functions to high level user applications by generating a socket for connecting to a remote machine on a network... ... data for transmission over the network. An extensible service provider (50) is coupled between the upper and lower interfaces to intercept network events. The application classifier plug-in examines network event intercepted and collects statistical information about the network event. The statistical information includes an application name of one of high level user applications that caused the network event, a time stamp for network event, a byte count when the network event is a transfer of data over the network, Internet addresses and ports when the network event is a connection or data transfer and a process identifier of a running instance of high level user application. The application classifier tables include current tables for currently-running instances of applications and historical tables that include closed application. INDEPENDENT CLAIMS are also included for the following... ... network flow classifying method; network traffic classification program ... ... USE - For computer networks such as Internet used by video conferencing, voice telephone calls, corporate database queries, mission-critical business transactions, for identifying application traffic signatures, signaling traffic priorities for security applications, financial applications. ADVANTAGE - Enables user of cable modem to request a higher level of service from a network. Prioritizes network traffic based on high level applications and users rather than low level IP addresses and TCP ports.... ... DESCRIPTION OF DRAWINGS - The figure shows the diagram of application classifier. 34 Winsock-2 library ... ... 51 Application classifier plug-in Title Terms .../Index Terms/Additional Words: CLASSIFY; Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date G06F-013/38 Main G06F-015/17 Manual Codes (EPI/S-X): T01-H07... ...T01-H07C... ...T01-H07P... ...T01-M02A1B Original Publication Data by Authority...Original Abstracts:plugins. These plugins are controlled by an extensible service provider that is layered above the TCP or other protocol layer but below the Winsock-2 library and API. Policy servers determine priority of network traffic through control points on a network. Examining packets passing through these control points provides limited data such as the source and destination IP address and TCP ports. Many applications on a client machine may use the same IP address and TCP ports, so packet examination is ineffective for prioritizing data from different applications on one client machine. Often some applications such as videoconferencing or data-entry for corporate sales are more important than other applications such as web browsing. A application-classifier plugin to the extensible service provider intercepts network traffic at above the client's TCP/IP stack and associates applications and users with network packets. These associations and statistics such as maximum, average, and instantaneous data rates and start and stop time are consolidated into tables. The policy server can query these tables to find which application is generating network traffic and prioritize the traffic based on the high-level application. Bandwidth-hogging applications such as browsers can be identified from the statistics and given lower priority. Claims: A client-side application-classifier comprising: an upper interface to a higher-level network-socket library, the higher-level network-socket library for providing high-level network functions to high-level user applications by generating a socket for connecting to a remote machine on a network; a lower interface to a... ... examiner, coupled to the interceptor, for examining the network event intercepted and collecting statistical information about the network event, the statistical information including: an application name of one of the high-level user applications that caused the network event; a timestamp for the network event; a byte count when the network event is a transfer of data over the network; Internet addresses and ports when the network event is a connection or a data transfer; and a process identifier of a running instance of the high-level user application; a consolidator, coupled to the examiner, for consolidating the statistical information into application-classifier tables, the application-classifier tables including current tables for currently-running instances of applications, and historical tables that include closed applications; and a reporter, coupled to the consolidator, for sending the statistical information from

the application-classifier tables to a remote policy **server** on the network, the statistical information including the application **name**, whereby the statistical information for network events is collected by the client-side application-classifier.>Basic Derwent Week: 200118

64/5,K/142 (Item 142 from file: 350) [Links](#)

Derwent WPIX

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0012372013 *Drawing available*

WPI Acc no: 2002-314971/200235

XRPX Acc No: N2002-246566

**Personalized user profile creation method for websites, involves searching an object in database, based on search phrases corresponding to keywords selected by user**

Patent Assignee: COLT J (COLT-I); FABLES W (FABL-I); PARK J (PARK-I); SEASEER R & D LLC (SEAS-N)

Inventor: COLT J; FABLES W; PARK J

Patent Family ( 4 patents, 94 countries )

Patent Number	K i n d	Application Number	K i n d	Upda te	T y p e
US 2002002453 2	A 1	200202 28	US 2000228154	P 2000082 5	2002 3 5
			US 2001939278	A 2001082 3	
WO 2002017145	A 1	200202 28	WO 2001US26574	A 2001082 4	2002 3 5
AU 200186766	A 2	200203 04	AU 200186766	A 2001082 4	2002 4 7
US 6895406	B 2	200505 17	US 2001939278	A 2001082 3	2005 3 3

Priority Applications (no., kind, date): US 2000228154 P 20000825; US 2001939278 A 20010823

Patent Details

Patent Number	Kind	I Pgs a n	Draw	Filing Notes	
US 20020024532	A1	E 13 N	2	Related to Provision al	US 20002281 54
WO 2002017145	A1	E N			

National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW				
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW				
AU 200186766	A	E	N	Based on OPI patent	WO 20020171 45

### Alerting Abstract US A1

**NOVELTY** - The words linked to graphical elements are presented as choices to user in display. Each word is associated with other keywords/default words. The objects are selected in database, based on search phrases relevant to selected keywords. When a user selects an object from newly displayed choices presenting searched object, the words used for searching object are added to user's profile or reinforced, if already present.

**USE** - For creating personalized user profile for searching website database.

**ADVANTAGE** - Improves targeting user query to database and selecting response from database, without relying on the coarser. The depth of personal profile is enhanced. Allows user's particular interest to be uniquely characterized in computerized applications that are to be personalized to the user.

**DESCRIPTION OF DRAWINGS** - The figure shows a schematic diagram of personalized user profile creation process.

**Title Terms /Index Terms/Additional Words:** PERSON; USER; PROFILE; CREATION; METHOD; SEARCH; OBJECT; DATABASE; BASED; PHRASE; CORRESPOND; KEYWORD; SELECT

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30; G06F-007/00			Main		"Version 7"

US Classification, Issued: 345700000, 707104100, 707102000, 707005000, 707006000, 707010000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-J05B3; T01-J05B4P**

**Class Codes Manual Codes (EPI/S-X): T01-J05B3... ...T01-J05B4P** Original Publication Data by Authority...**Claims:**related keywords representing categories for the content items stored in the database;(b) establishing a personal profile for the user comprising a Personal Word Map of keywords compiled from

selections made by the user from the displayed index **and** from those entered as **user** input on the computer;(c) receiving a first **user input** of a selection of a choice from the displayed **index**, and retrieving the **associated** keywords **related** to the selected choice, and selecting one **or** more pairs of different keywords as Boolean operators in order to generate a corresponding set of one or more **search** phrases using the associated keywords;(d) conducting a **search** of the **database** using the set of **search** phrases as search queries to the **database**, and returning one or more objects from the **database** in response to the **search queries**;(e) displaying to the **user** a new **index** of choices representing the objects returned from the **database**, wherein each choice on the displayed **index** is associated with the pair of keywords **used** as Boolean operators in the **search** phrase that returned the object represented;(f) receiving a subsequent user input of a selection of a choice from the displayed index, and updating the Personal Word Map of the **user's** personal **profile** with the pair of keywords **used** in the **search** phrase that returned the selected object,wherein said Personal Word Map is comprised of searare line entries for each different **keyword** used in a **search** phrase followed by its associated keyword, and each keyword in the Personalized Word Map is tracked with a weight value for the number of times.... of keywords used in the search phrase that returned the selected object, and selecting one or more pairs of different keywords from the associated keywords as Boolean operators in order to generate a **subsequent** set of **search** phrases using the associated keywords;(h) conducting a subsequent **search** of the **database** using the **subsequent** set of **search** phrases as further search queries to the **database**, and returning one or more objects from the **database** in response to the **search queries**;(i) displaying to the **user** a new **index** of choices representing the objects returned from the **database**, wherein each choice on the displayed **index** is associated with the pair of keywords used in the **search** phrase that returned the object represented; and(j) for each **user selection** of a choice from the displayed **index**, updating the Personal Word Map of the user's personal **profile** by **entering each** keyword of each pair of **keywords** for a **user** selection as a separate line entry if it is not already listed as a separate line entry, or if it is already listed as a separate line entry **then** incrementing the **weight value** of the listed **keyword** by one, **and** also entering its associated keyword as a following entry if it is not already listed as a following entry, and if the associated keyword is already listed as a following entry then incrementing its **weight** value by one;whereby, by iteratively continuing the cycle of user input by selection from the displayed index of choices, updating the user's personal

64/5, K/50 (Item 50 from file: 350) [Links](#)

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0014119811 *Drawing available*

WPI Acc no: 2004-304286/200428

XRPX Acc No: N2004-242320

**Directory queries processing method in data processing apparatus, involves retrieving information corresponding to cached directory query contained in subset of queries, from cache storage, to answer received query**

Patent Assignee: GUPTA R (GUPT-I); KUMAR A (KUMA-I); INT BUSINESS MACHINES CORP (IBMC)

Inventor: GUPTA R; KUMAR A

Patent Family (2 patents, 1 countries)

Patent Number	K	i n d	Application Number	K	i n d	Upda te	T y p e
US 200400597 19	A	1 200403 25	US 200225266 2	A	200209 23	2004 2 8	B
US 7035846	B	2 200604 25	US 200225266 2	A	200209 23	2006 2 8	E

Priority Applications (no., kind, date): US 2002252662 A 20020923

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20040059719	A1	EN	18	5	

Alerting Abstract US A1

NOVELTY - The **characteristics** of query received by the proxy **server** is compared with **stored query characteristics**, to determine whether any of the subset of cached **directory queries** contain the received query. If query is determined to be contained in the subset of queries, the information corresponding to the contained query is retrieved from the cache **storage**, and the query is answered using the retrieved information.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. data processing apparatus;
2. computer program product comprising computer readable medium **storing** data processing apparatus **operating** program;

3. **directory** searching method; and
4. query containment **checking** method.

USE - For processing **directory** queries in data processing apparatus (claimed) such as computer **and** network of interconnected computers.

ADVANTAGE - Enables to carry out efficient checking of query containment, while processing received queries.

DESCRIPTION OF DRAWINGS - The figure shows the schematic representation of data processing network.

10light weight **directory** access protocol **client**

60remote **server**

100protocol engine

110proxy cache manager

130query containment component

**Title Terms /Index Terms/Additional Words:** **DIRECTORY**; **QUERY**; **PROCESS**; **METHOD**; **DATA**; **APPARATUS**; **RETRIEVAL**; **INFORMATION**; **CORRESPOND**; **CONTAIN**; **SUBSET**; **CACHE**; **STORAGE**; **ANSWER**; **RECEIVE**

#### Class Codes

##### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-007/00</b>			Main		"Version 7"
<b>G06F-0017/30</b>	A	I	F	B	20060101

US Classification, Issued: 707003000, 707003000, 707010000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): **T01-E01C; T01-H03A; T01-J05B2B; T01-N02A3B; T01-N02A3C; T01-N03A2; T01-S03; W01-A06E**

**Directory queries processing method in data processing apparatus, involves retrieving information corresponding to cached directory query contained in subset of queries, from cache storage, to answer received query** **Original Titles:**Methods, computer programs and apparatus for caching directory queries... .Methods, computer programs and apparatus for caching directory queries **Alerting Abstract** ...NOVELTY - The **characteristics of query** received by the proxy **server** is compared with **stored query characteristics**, to determine whether any of the subset of cached **directory queries** contain the received query. If query is determined to be contained in the subset of queries, the information corresponding to the contained query is retrieved from the cache **storage**, and the query is answered using the retrieved information. ... data processing apparatus;computer program product comprising computer readable medium **storing** data processing apparatus **operating program;directory** searching method; andquery containment **checking** method... . . . USE - For processing **directory** queries in data processing apparatus (claimed) such as computer **and** network of interconnected computers... . . . 10light weight **directory** access

protocol client60remote serverTitle Terms / Index Terms/Additional Words:  
**DIRECTORY; ... . . . STORAGE; Class Codes** International Patent Classification  
IPC Class Level Scope Position Status Version Date **G06F-007/00** Main  
**G06F-0017/30**... Manual Codes (EPI/S-X): **T01-E01C... . . . T01-H03A...**  
**...T01-J05B2B... . . . T01-N02A3B... . . . T01-N02A3C... . . . T01-N03A2... . . . T01-S03**  
Original Publication Data by AuthorityOriginal Abstracts:A framework for  
answering Lightweight Directory Access Protocol (LDAP) queries from previously  
cached queries includes a proxy server configured to receive client directory  
queries. The proxy server maintains a cache of data (entries) and semantic  
information associated with a query. In response to a query received from  
client, the proxy invokes a query containment procedure which uses the semantics  
of the incoming and stored queries to determine whether the query can be  
answered from cached queries. The proxy answers queries from the local cache  
when possible, and for other queries it sends the request to a directory server.  
The semantics of the new query and the resulting data (entries) are added to  
the cache. The method and apparatus can be used for positive conjunctive  
queries for answering. . . . A framework for answering Lightweight Directory  
Access Protocol (LDAP) queries from previously cached queries includes a  
proxy server configured to receive client directory queries. The proxy server  
maintains a cache of data (entries) and semantic information associated with a  
query. In response to a query received from client, the proxy invokes a query  
containment procedure which uses the semantics of the incoming and stored queries  
to determine whether the query can be answered from cached queries. The proxy  
answers queries from the local cache when possible, and for other queries it  
sends the request to a directory server. The semantics of the new query and the  
resulting data (entries) are added to the cache. The method and apparatus can  
be used for positive conjunctive queries for answering equality, range and  
substring queries. **Claims:What** is claimed is:1. A method for processing  
directory queries in a directory service apparatus, comprising the steps of: in  
response to a directory service query being received by a proxy server of the  
directory service apparatus, comparing characteristics of the received query with  
query characteristics stored in cache storage at the proxy server, which stored  
information is representative of a set of directory queries for which results  
information is stored in said cache storage, thereby to identify a subset of the  
set of cached directory queries which are potentially relevant to the received  
query; determining whether any of the subset of cached directory queries contains  
the received query; in response to a positive determination that a cached  
directory query contains the received query, retrieving from said cache storage  
the results information corresponding to the containing cached directory query  
and answering the received query using the retrieved results  
information. **What** is claimed is:1. A method for processing directory queries in  
a directory service apparatus, said method comprising: in response to a  
directory service query being received by a proxy server of the directory  
service apparatus, comparing characteristics of the received query with query  
characteristics stored in cache storage at the proxy server, which stored information  
is representative of a set of directory queries for which results information is

stored in said **cache storage**, thereby to **identify** a subset of the set of cached **directory queries** which are potentially **relevant to the** received **query**; determining whether any of the subset of cached directory queries contains the received **query**; in response to a **positive determination** that a cached **directory query** contains the **received query**, retrieving from said **cache storage** the results information corresponding to the containing cached **directory query** and answering the received **query** using the retrieved results information, wherein the compared query characteristics are attribute value assertions (AVAs) of the received **query** and attribute value assertions of the... ... server, and wherein the proxy server comprises any of: a reverse proxy located near the directory server or is a part of the directory server, and a forward proxy located near a **client system** or is a part of the **client system**.>Basic.Derwent Week: 200428

64/5,K/229 (Item 229 from file: 350) [Links](#)

Derwent WPIX

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0009114849 *Drawing available*

WPI Acc no: 1999-034567/199903

XRPX Acc No: N1999-025910

**Graphical user interface for database search engines - includes domain scope menu to allow user to hierarchically search several topics in control field**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: D'ELENA D F; MARTINEZ A E

Patent Family ( 1 patents, 1 countries )

Patent Number	Ki	n d	Date	Application Number	Ki	n d	Date	Updat e	T y p e
US 5842203	A		1998112 4	US 1995566330	A		1995120 1	19990 3	B

Priority Applications (no., kind, date): US 1995566330 A 19951201

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5842203	A	EN	12	9	

#### Alerting Abstract US A

The interface consists of a search cell (112) that consists of several controls for specifying several **search parameters** to perform a **search query**. A domain scoping menu (120) narrows the domain on which the query is focussed and enables **hierarchical search** of listed **topics** in a control field.

A keyword input field (122) is provided for inputting a keyword relating to **search topic**. When a narrowing funnel (124) is clicked, the **search** result output is reduced. When a broadening funnel (126) is clicked, the **search** result output is increased.

**ADVANTAGE** - Broadens scope of search cell.

**Title Terms /Index Terms/Additional Words:** GRAPHICAL; USER; INTERFACE; **DATABASE**; SEARCH; ENGINE; DOMAIN; SCOPE; MENU; ALLOW; **HIERARCHY**; **TOPIC**; CONTROL; FIELD

#### Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30			Main		"Version 7"

US Classification, Issued: 707004000, 707005000, 345968000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-J05B3; T01-J05B4P; T01-J12**

**Graphical user interface for database search engines ... ...includes domain scope menu to allow user to hierarchically search several topics in control field** **Original Titles:** Method and system for performing non-boolean search queries in a graphical user interface. Alerting Abstract ...The interface consists of a search cell (112) that consists of several controls for specifying several search parameters to perform a search query. A domain scoping menu (120) narrows the domain on which the query is focussed and enables hierarchical search of listed topics in a control field... ...A keyword input field (122) is provided for inputting a keyword relating to search topic. When a narrowing funnel (124) is clicked, the search result output is reduced. When a broadening funnel (126) is clicked, the search result output is increased... **Title Terms .../Index Terms/Additional Words:** DATABASE; ... ...HIERARCHY; TOPIC; Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date **G06F-017/30** Main Manual Codes (EPI/S-X): **T01-J05B3... ...T01-J05B4P... ...T01-J12** Original Publication Data by Authority **Original Abstracts:** A data processing system that includes a data store, means for archiving files within the data store, and a graphical user interface is disclosed that uses a novel query system. The query system includes a domain scope control field, a narrowing search control funnel, a specific item search field, and a broadening search control funnel. The domain scope control field allows a user to perform a hierarchical search within a plurality of topics available in the domain control field. The search query generates a search cell. The narrowing search control allows a user to narrow the scope of the search cell. The specific item search field allows a user to identify specific key words to be searched within the search cell. The broadening search control allows a user to broaden the scope of the search cell. **Claims:** In a data processing system, including a data store and means for archiving files within said data store and a graphical user interface, a query system presented utilizing said graphical user interface comprising: a graphically displayed search cell for graphically specifying a search query, said search cell capable of being utilized to permit graphical specification of a plurality of parameters of a search;a domain scope control field graphically displayed within said search cell that allows a user to perform said hierarchical search within a plurality of topics displayable in said domain scope control field, wherein one of said plurality of topics is graphically selected utilizing said search cell as a domain scope of the search;a graphical narrowing search control indicator that allows a user to narrow a result of said search, said narrowing search control indicator capable of being utilized to generate a second graphically displayed search cell;a specific item search field that allows a user to identify specific key words to be searched within said one of said plurality of topics; and a graphical broadening search control indicator that allows a user to broaden said result of said search, said broadening search control indicator capable of being utilized to generate a third graphically displayed search cell. Basic Derwent Week: 199903

64/5, K/40 (Item 40 from file: 350) [Links](#)

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0014344929 *Drawing available*

WPI Acc no: 2004-533132/200451

XRXPX Acc No: N2004-422262

**User attribute information management method in business-to-business domain, involves requesting user input comprising value that indicates retrieval condition, while retrieving user attribute information for user**

Patent Assignee: IBM UK LTD (IBMC); INT BUSINESS MACHINES CORP (IBMC)

Inventor: BLAKLEY G R; HINTON H M; PFITZMANN B M

Patent Family (5 patents, 106 countries)

Patent Number	K	i n d	Application Number	K	i n d	Upda te	T y p e
US 20040128378	A	1 20040701	US 2002334605	A	20021231	200451	B
WO 2004059530	A	1 20040715	WO 2003GB5439	A	20031212	200451	E
AU 2003288465	A	1 20040722	AU 2003288465	A	20031212	200476	E
TW 200419379	A	20041001	TW 2003130499	A	20031031	200608	E
TW 246005	B	1 20051221	TW 2003130499	A	20031031	200707	E

Priority Applications (no., kind, date): US 2002334605 A 20021231

Patent Details

Patent Number	Kind	I Pgs a n	Draw	Filing Notes	
US 20040128378	A1	E 33 N	9		
WO 2004059530	A1	E			

			N		
National Designated States, Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW				
Regional Designated States, Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				
AU 2003288465	A1	E	N	Based on OPI patent	WO 2004059530
TW 200419379	A	Z	H		
TW 246005	B1	Z	H		

#### Alerting Abstract US A1

**NOVELTY** - A request message identifying requested user attributes, is received at an attribute information provider from an e-commerce service provider. An user input comprising a value that indicates a retrieval condition on subsequent requests, is requested by the attribute information provider prior to sending a response message to the service provider, while retrieving user attribute information for the user.

**DESCRIPTION** - INDEPENDENT CLAIMS are also included for the following:

1. data processing system for managing user attribute information;
2. computer program product comprising recorded medium storing program for managing user attribute information in data processing system; and
3. apparatus for managing user information.

**USE** - For managing user attribute information in data processing system of federated domain such as business-to-business (B2B) domain and e-community domain.

**ADVANTAGE** - The user is not necessarily challenged for attribute information when attempting to access the protected resource at the e-commerce service provider under certain conditions. This allows some degree of free movement between domains that participate in the federated environment. The user gains some efficiency or productivity in not having to fulfill multiple informational requests, which are barriers to free movement across web sites.

**DESCRIPTION OF DRAWINGS** - DESCRIPTION OF DRAWING - The figure shows a flowchart explaining the user attribute information management method.

**Title Terms /Index Terms/Additional Words:** USER; ATTRIBUTE; INFORMATION; MANAGEMENT; METHOD; BUSINESS; DOMAIN; REQUEST; INPUT; COMPRIZE; VALUE;

INDICATE; RETRIEVAL; CONDITION

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/00; G06F-017/60			Main		"Version 7"
G06F-0021/00	A	I		R	20060101
H04L-0029/06	A	I		R	20060101
G06F-0021/00	C	I		R	20060101
H04L-0029/06	C	I		R	20060101

US Classification, Issued: 709224000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-N01A2A; T01-S03

**Class Codes Manual Codes (EPI/S-X): T01-N01A2A... ... T01-S03 Original Publication Data by Authority...Original Abstracts:** the user will be able to direct the ECSP to an AIP when the ECSP needs user attribute information to complete a transaction for the user. ... ... A system is presented for facilitating management of **user attribute** information at one or more **attribute** information providers (AIPs), which can manage the **user's attribute** information in accordance with **user-selected** or administratively-determined options, including options that are **stored** in **attribute** release policies and/or dynamically determined during a transaction. E-commerce service providers (ECSPs), such as online banks or merchants, also maintain a **relationship** with an AIP such that the ECSP can trust the **user attribute** information that is provided by the AIP on behalf of the user. The **user** can complete transactions that require **user attribute** information at any ECSP without having to have previously established a **relationship** with that particular ECSP. If the ECSP has a **relationship** with one of the **user's AIPs**, then the user will be able to direct the ECSP to an AIP when the ECSP needs **user attribute** information to complete a transaction for the **user**. ... ... L'invention concerne un systeme qui facilite la gestion des informations d'**attributs** de l'utilisateur au niveau d'un ou de plusieurs fournisseurs d'informations d'**attributs** (AIP), qui peut gerer les informations d'**attributs** de l'utilisateur conformement aux options de l'utilisateur ou determinees de maniere administrative, y compris les options qui sont stockees dans des politiques de liberation d'**attributs** et/ou determinees de maniere dynamique lors d'une transaction. Les fournisseurs de services du commerce electronique (ECSP), par exemple des banques ou des commercants en ligne, conservent egalement une relation avec un AIP, ainsi, ils peuvent faire confiance aux informations d'**attributs** de l'utilisateur que leur fournit l'AIP au nom de l'utilisateur. Ce dernier peut completer les transactions qui necessitent des informations d'**attributs** d'utilisateur a n'importe quel ECSP sans devoir etablir au prealable une relation avec

l'ECSP en question. Si ce dernier a une relation... . . . des AIP de l'utilisateur, ce dernier peut alors l'indiquer à l'ECSP dans le cas où celui-ci a besoin d'informations d'**attributs** d'utilisateur pour compléter une transaction pour l'utilisateur concerné. **Claims:What** is claimed is:1.. A method for managing **user attribute** information within a data processing system, the method comprising: receiving a **request** message at an **attribute** information provider from a service provider that is attempting to retrieve **user attribute** information for a user, **wherein** the **request** message **identifies** one or more **requested user attributes**, **wherein** the **attribute** information provider is a service provider that maintains **user attribute** information for the **user**; and requesting **user** input by the **attribute** information provider **prior** to sending a response message from the **attribute** information provider to the service provider, **wherein** the **user** input comprises a **value** that indicates a retrieval condition on subsequent **requests** while retrieving **user attribute** information for the **user**.>

64/5, K/33 (Item 33 from file: 350) Links

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0014507448 *Drawing available*

WPI Acc no: 2004-689368/200467

Related WPI Acc No: 2006-108189

XRPX Acc No: N2004-546177

**Interactive search query refinement method for document retrieval, involves associating documents with respective set of ranked candidate terms, and presenting ranked documents with subset of candidate terms**

Patent Assignee: ANICK P G (ANIC-I); GOURLAY A (GOUR-I); OVERTURE SERVICES INC (OVER-N); THRALL J (THRA-I)

Inventor: ANICK P G; GOURLAY A; THRALL J; THRALL J J

Patent Family (7 patents, 107 countries)

Patent Number	K	i n d a t e	Application Number	K	i n d a t e	Upda te	T y p e
US 20040186 827	A	20040 1 923	US 2003456905	P	200303 21	2004 6 7	B
			US 2003424180	A	200304 25		
WO 20040861 92	A	20041 2 007	WO 2004US8713	A	200403 22	2004 6 7	E
US 6947930	B	20050 2 920	US 2003424180	A	200304 25	2005 6 2	E
EP 1606704	A	20051 2 221	EP 2004758009	A	200403 22	2006 0 1	E
			WO 2004US8713	A	200403 22		
KR 20060028 31	A	20060 109	WO 2004US8713	A	200403 22	2006 5 9	E
			KR 2005717606	A	200509 20		
JP 20065233 44	W	20061 012	WO 2004US8713	A	200403 22	2006 6 7	E
			JP 2006507450	A	200403 22		

CN 1795432	A	20060 628	CN 20048001402 7	A	200403 22	2006 7 2	E
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Priority Applications (no., kind, date): US 2003456905 P 20030321; US 2003424180 A 20030425

Patent Details

Patent Number	Kind	IPgs a n	Draw	Filing Notes				
US 200401868 27	A1	E 21 N	6	Related to Provisional		US 20034569 05		
WO 200408619 2	A2	E N						
National Designated States, Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW							
Regional Designated States, Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW							
EP 1606704	A2	E N		PCT Application	WO 2004US87 13			
				Based on OPI patent	WO 20040861 92			
Regional Designated States, Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR							
KR 200600283 1	A	K O		PCT Application	WO 2004US87 13			
				Based on OPI patent	WO 20040861 92			
JP 200652334 4	W	J 34 A		PCT Application	WO 2004US87 13			
				Based on OPI patent	WO 20040861 92			

**NOVELTY** - A **query** from the **client** is processed in the **search engine server**, and a set of documents associated with respective set of **ranked** candidate terms is retrieved. The **ranked** terms are **identified** by comparing terms in the document with the terms in a master list. A subset of the candidate terms is selected and presented along with the initial group of **ranked** documents to the **client**.

**DESCRIPTION** - INDEPENDENT CLAIMS are also included for the following:

1. computer program product for refining query;
2. computer system for refining query; and
3. computer **index** data structure for refining query.

**USE** - For interactive **search query** refinement used for assisting **search engine users** in refining their **search queries** to locate and retrieve documents.

**ADVANTAGE** - Requires significantly less input/output resources at **query time**, and the **users** can refine their **search queries** easily.

**DESCRIPTION OF DRAWINGS** - The drawing shows a flow diagram of a **client** computer submitting a **query** to a **search engine**.

**Title Terms / Index Terms/Additional Words:** INTERACT; SEARCH; QUERY; REFINE; METHOD; DOCUMENT; RETRIEVAL; ASSOCIATE; RESPECTIVE; SET; RANK; CANDIDATE; TERM; PRESENT; SUBSET

#### Class Codes

##### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-0017/30</b>	A	I		R	20060101
<b>G06F-0017/30</b>	A	I	F	B	20060101
<b>G06F-0007/00</b>	A	I	F	B	20060101
<b>G06F-0007/00</b>	A	I	F		20060101
<b>G06F-0017/30</b>	C	I		R	20060101
<b>G06F-0017/30</b>	C	I	L	B	20060101

US Classification, Issued: 707003000, 707100000, 707102000, 715513000, 707005000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-N03A2; T01-S03**

**Interactive search query refinement method for document retrieval, involves associating documents with respective set of ranked candidate terms, and presenting ranked documents with subset of candidate terms Alerting Abstract** . . . **NOVELTY** - A **query** from the **client** is processed in the **search engine server**, and a set of documents associated with respective set of **ranked** candidate terms is retrieved. The **ranked** terms are **identified** by comparing terms in the document with the terms in a master list. A subset of

the candidate terms is selected and presented along with the initial group of **ranked** documents to the **client**. . . . computer program product for refining query; computer system for refining query; and computer **index** data structure for refining query. . . . USE - For interactive **search query** refinement used for assisting **search engine users** in refining their **search queries** to locate and retrieve documents. . . . ADVANTAGE - Requires significantly less input/output resources at **query time**, and the **users** can refine their **search queries** easily. . . .

... DESCRIPTION OF DRAWINGS - The drawing shows a flow diagram of a **client** computer submitting a **query** to a **search engine**.

**Title Terms** . . . /Index

Terms/Additional Words: **RANK**; **Class Codes** International Patent Classification

IPC Class Level Scope Position Status Version Date **G06F-0017/30** . . .

. . . **G06F-0017/30** . . . . . **G06F-0007/00** . . . . . **G06F-0007/00** **G06F-0017/30** . . .

. . . **G06F-0017/30** Manual Codes (EPI/S-X): **T01-N03A2** . . . . . **T01-S03** Original

Publication Data by AuthorityOriginal Abstracts: A received **query** is processed so as to generate an initial group of **ranked** documents corresponding to the received **query**. Each document in all or a portion of the documents in the initial group of **ranked** documents is associated with a respective set of **ranked** candidate terms such that each candidate term in the respective set of **ranked** candidate terms is embedded within the document. Each respective set of **ranked** candidate terms is **identified** at a **time prior** to the processing of the received **query**. In accordance with a selection function, a subset of the candidate terms in one or more of the respective sets of candidate terms is selected. In response to the received **query**, the initial group of **ranked** documents and the subset of candidate terms are presented. . . . A received **query** is processed so as to generate an initial group of **ranked** documents corresponding to the received **query**. Each document in all or a portion of the documents in the initial group of **ranked** documents is associated with a respective set of **ranked** candidate terms such that each candidate term in the respective set of **ranked** candidate terms is embedded within the document. Each respective set of **ranked** candidate terms is **identified** at a **time prior** to the processing of the received **query**. In accordance with a selection function, a subset of the candidate terms in one or more of the respective sets of candidate terms is selected. In response to the received **query**, the initial group of **ranked** documents and the subset of candidate terms are presented. . . . A received **query** is processed so as to generate an initial group of **ranked** documents corresponding to the received **query**. Each document in all or a portion of the documents in the initial group of **ranked** documents is associated with a respective set of **ranked** candidate terms such that each candidate term in the respective set of **ranked** candidate terms is embedded within the document. Each respective set of **ranked** candidate terms is **identified** at a **time prior** to the processing of the received **query**. In accordance with a selection function, a subset of the candidate terms in one or more of the respective sets of candidate terms is selected. In response to the received **query**, the initial group of **ranked** documents and the subset of candidate terms are presented. . . . A received **query** is processed so as to generate an initial group of **ranked** documents corresponding to the received **query**. Each document in all or a portion of the documents in the initial

group of **ranked** documents is associated with a respective set of **ranked** candidate terms such that each candidate term in the respective set of **ranked** candidate terms is embedded within the document. Each respective set of **ranked** candidate terms is **identified** at a **time prior** to the processing of the received **query**. In accordance with a selection function, a subset of the candidate terms in one or more of the respective sets of candidate terms is selected. In response to the received **query**, the initial group of **ranked** documents and the subset of candidate terms are presented... . Selon la presente invention, une demande recue est **traitee de sorte** qu'un groupe initial de documents ordonnes correspondant a la demande recue soit genere. Chacun des documents dans tout ou partie des documents appartenant au groupe initial de documents ordonnes est associe a un ensemble correspondant de termes candidats ordonnes de **sorte** que chacun des termes candidats contenus dans l'ensemble correspondant de termes candidats ordonnes soit integre dans le document. Chaque ensemble correspondant de termes candidats ordonnes est **identifie** a un moment precedant le **traitement** de la demande recue. Conformement a une fonction de selection, un sous-ensemble de termes candidats contenu dans un ou plusieurs des ensembles correspondants de... **Claims:What** is claimed is:1. A method of refining a received query, comprising:processing said received **query** so as to generate an initial group of **ranked** documents corresponding to the received **query**, **wherein** each document in all or a portion of the documents in said initial group of **ranked** documents is associated with a respective set of precomputed **ranked** candidate terms such that each candidate term in said respective set of **ranked** candidate terms is embedded within said document;selecting, in accordance with a selection function, a subset of candidate terms that are in one or more of said respective sets of **ranked** candidate terms; andpresenting, in response to the received **query**, the initial group of **ranked** documents and said subset of candidate terms... . 1. A method of refining a received query, comprising processing said received **query** so as to generate an initial group of **ranked** documents corresponding to the received **query**, **wherein** each document in all or a portion of the documents in said initial group of **ranked** documents is associated with a respective set of precomputed **ranked** candidate terms such that each candidate term in said respective set of **ranked** candidate terms is embedded within said document; selecting, in accordance with a selection function, a subset of candidate terms that are in one or more of said respective sets of **ranked** candidate terms; an presenting, in response to the received **query**, the initial group of **ranked** documents and said subset of candidate terms.Basic Derwent Week: 200467

64/5, K/4 (Item 4 from file: 350) Links

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0016256575 *Drawing available*

WPI Acc no: 2006-788198/200680

Related WPI Acc No: 2006-087805; 2006-180803; 2006-633339; 2006-645712; 2006-686959

XRPX Acc No: N2006-609946

**Customer lead generation system for business application, searches profile and contact data associated with customer, from data mart and text archive on receiving query representing request for information about participants**

Patent Assignee: REACHFORCE INC (REAC-N)

Inventor: FENG Y; FOSTER R L; SEIBEL J C

Patent Family (1 patents, 1 countries)

Patent Number	Ki	n d	Date	Application Number	Ki	n d	Date	Upda te	T y p e
US 712062 9	B	1	200610 10	US 2000206772	P		2000052 4	2006 8 0	B
				US 2001865802	A		2001052 4		

Priority Applications (no., kind, date): US 2000206772 P 20000524; US 2001865802 A 20010524

Patent Details

Patent Number	Ki	n d	L	Pgs a n	Draw	Filing Notes	
US 7120629	B1		E	22 N	12	Related to Provisi onal	US 20002067 72

**Alerting Abstract US B1**

NOVELTY - A business profile system has a data mart for storing business profile data associated with existing customer of enterprise, extracted from internal data source of enterprise. A prospect harvester has a text archive for storing contact data representing information about prospective customers of product or service. When a query representing request for information about participants, is received from the enterprise, a text indexing server searches the associated profile data and contact data from the data mart and text archive.

DESCRIPTION - An INDEPENDENT CLAIM is included for customer lead generation method.

USE - For business application.

ADVANTAGE - The system enables the business client to easily obtain information about its sales and other aspects of business, to determine profile of potential customers which ensures the effectiveness of marketing campaigns.

DESCRIPTION OF DRAWINGS - The figure shows the flow diagram illustrating operation of prospect harvester of customer lead generation system.

**Title Terms /Index Terms/Additional Words:** CUSTOMER; LEAD; GENERATE; SYSTEM; BUSINESS; APPLY; SEARCH; PROFILE; CONTACT; DATA; ASSOCIATE; TEXT; ARCHIVE; RECEIVE; QUERY; REPRESENT; REQUEST; INFORMATION; PARTICIPATING

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-0015/173	A	I	L	B	20060101
G06F-0017/30	A	I	F	B	20060101
G06F-0007/00	A	I	L	B	20060101
G06Q-0040/00	A	I	L	B	20060101
G06F-0015/16	C	I	L	B	20060101

US Classification, Issued: 707005000, 707005000, 707102000, 707200000, 709225000, 705037000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B1; T01-N01A1; T01-N01A2A; T01-N01A2C; T01-N03A2

**Customer lead generation system for business application, searches profile and contact data associated with customer, from data mart and text archive on receiving query representing request for information about participants ...Original Titles:** system for providing contact data about customers of product or service offered by business enterprise extracting text documents selected from newsgroups, discussion forums, mailing lists, querying such data to provide **customers who** confirm to business profile data ...mart for storing business profile data associated with existing customer of enterprise, extracted from internal data source of enterprise. A prospect harvester has a text **archive** for storing contact data representing information about prospective **customers** of product or service. When a query representing **request** for information about **participants**, is received from the enterprise, a text indexing server **searches** the associated profile data and contact data from the data mart and text archive. Original Publication Data by Authority...**Original Abstracts:** and method for providing profile data representing profiles of potential customers of a business enterprise. The system is based on an application service provider architecture, **where** the business enterprise accesses the profile data via the Internet using a web browser. The system is capable of using internal

data of the business... **Claims:What** is claimed is:1. A database server system, maintained by an application service provider (ASP), for generating contact data for potential customers of a business... . . . customers of the business enterprise, comprising: a data acquisition process for extracting the business profile data from the enterprise's pre-existing internal data sources; **wherein** the data sources comprise at least the following data associated with existing customers of the enterprise: customer data, sales data, and account data; a data... . . . a data acquisition process for extracting Internet text documents from unstructured Internet discussion sites selected from the group of: newsgroups, discussion forums, and mailing lists; **wherein** each discussion site comprises a collection of text documents generated by participants of the discussion site and received by multiple **participants** of the discussion site; a text **archive** for storing the extracted text documents; a text indexing server operable to index the text archive in accordance with both keywords contained in the text source and in accordance with contact data associated with the **participants**; **wherein** the text indexing server is operable to receive **queries** from the business enterprise, each **query** representing a **request** for information about **participants who** are discussing a specified product or service; **wherein** the text indexing server is further operable to access both the text **archive** and the business profile data mart, to use the **query** as a basis for extracting data from the text **archive** and the business profile data mart, and to provide a response that represents data about participants **who** conform to business profile data; **wherein** the text indexing server **searches** the text **archive** and the business profile database according to parameters representing keywords in the text archive, contact data in the text archive, and profile data in the profiles database; a web server for receiving queries from the enterprise, and for providing the response to the enterprise, via a web browser; **wherein** the business profile system, the prospects harvester system, the text indexing server, and the web server are operated by the ASP for use by multiple... Basic Derwent Week: 200680

64/5, K/3 (Item 3 from file: 350) Links

Derwent WPIX

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0016566249 *Drawing available*

WPI Acc no: 2007-281187/200727

XRPX Acc No: N2007-207447

**Content providing method for use in broadcast system, involves receiving and/or storing data files that are later broadcast by server using client system based on meta-data, access habits of user and optional user classifications**

Patent Assignee: INTEL CORP (ITLC)

Inventor: CONNELLY J H

Patent Family (1 patents, 1 countries)

A. Patent Number	B. K i n d	C. Date	D. Application Number	E. K i n d	F. Date	G. U p d a t e	H. T y p e
I. US 7167 895	J. B 1	K. 200 701 23	L. US 2000533 048	M. A	N. 200 003 22	O. 20 07 27	P. B

Q.

Priority Applications (no., kind, date): US 2000533048 A 20000322

Patent Details

R. Patent Number	S. Kin d	T. La n	Pgs	Draw	Filing Notes	Y.
U. US 7167895	V. B1	W. EN	21	13	X.	

#### Alerting Abstract US B1

**NOVELTY** - The method involves broadcasting meta-data to a set of **clients** by a **server**, where the meta-data describes a set of **data files** that are to be broadcast or potentially broadcast later by the **server**. The broadcasted meta-data from the **server** is received by each client, and a local meta-data table and a **content rating** table are updated and maintained by each client. The **data files** that are later broadcast by the **server** are selectively received and/or **stored** by a client system based on the meta-data, access habits of a **user** and optional **user classifications**.

**DESCRIPTION** - INDEPENDENT CLAIMS are also included for the following:

1. an apparatus comprising a processor
2. a machine readable medium having instructions for performing a **content providing method**
3. a system comprising a broadcast **server**.

A.

USE - Used for providing **content** on demand in a broadcast system that is utilized for transmitting data in a direction from a **server** system to a set of client systems.

ADVANTAGE - The **data files** that are later broadcast by the **server** are selectively received and/or **stored** by the client system based on the meta-data, access habits of the **user** and optional **user classifications**, thus efficiently utilizing the broadcast bandwidth. The broadcasted meta-data from the **server** is received by each client, and the local meta-data table and the **content rating** table are updated and maintained by the client, thus allowing the content **rating** table to more accurately predict **data files** in which the user is interested. The method allows the movies that the user want to watch to be automatically **stored** locally, so that the movies are available on demand without the **user** having to explicitly **request** the movies **in advance** or explicitly specify **criteria** used to **identify** the movies.

DESCRIPTION OF DRAWINGS - The drawing shows a flow **chart of content** providing method.

**Title Terms / Index Terms/Additional Words:** **CONTENT; METHOD; BROADCAST; SYSTEM; RECEIVE; STORAGE; DATA; FILE; LATE; SERVE; CLIENT; BASED; META; ACCESS; HABIT; USER; OPTION**

#### Class Codes

##### International Patent Classification

B. IPC	Class Level	Scope	Position	Status	Version Date
<b>D. G06F-0015/16</b>	A	I	F	B	20060101
<b>H. H04H-0009/00</b>	A	I	L	B	20060101
<b>L. G06F-0015/16</b>	C	I	F	B	20060101
<b>P. H04H-0009/00</b>	C	I	L	B	20060101

C.  
E.  
H.  
M.  
B.

T.

US Classification, Issued: 709203000, 709231000, 725009000, 725135000

File Segment: EPI;  
DWPI Class: T01; W02

Manual Codes (EPI/S-X): **T01-N01D1A; T01-N01D1B; T01-N01D3; T01-S03; W02-F04B; W02-F10A; W02-F10K**

**Content providing method for use in broadcast system, involves receiving and/or storing data files that are later broadcast by server using client system based on meta-data, access habits of user and optional user classifications** **Original Titles:** Signaling method and apparatus to provide **content** on demand in a broadcast system **Alerting Abstract** . . . **NOVELTY** - The method involves broadcasting meta-data to a set of **clients** by a **server**, **where** the meta-data describes a set of **data files** that are to be broadcast or potentially broadcast later by the **server**. The broadcasted meta-data from the **server** is received by each client, and a local meta-data table and a **content rating** table are updated and maintained by each client. The **data files** that are later broadcast by the **server** are selectively received and/or **stored** by a client

system based on the meta-data, access habits of a **user** and optional **user classifications**. . . . an apparatus comprising a processor a machine readable medium having instructions for performing a **content** providing method a system comprising a broadcast **server**. . . . USE - Used for providing **content** on demand in a broadcast system that is utilized for transmitting data in a direction from a **server** system to a set of client systems... . . . ADVANTAGE - The **data files** that are later broadcast by the **server** are selectively received and/or **stored** by the client system based on the meta-data, access habits of the **user** and optional **user classifications**, thus efficiently utilizing the broadcast bandwidth. The broadcasted meta-data from the **server** is received by each client, and the local meta-data table and the **content** rating table are updated and maintained by the client, thus allowing the content **rating** table to more accurately predict **data files** in which the user is interested. The method allows the movies that the user want to watch to be automatically **stored** locally, so that the movies are available on demand without the **user** having to explicitly **request** the movies **in advance** or explicitly specify **criteria** used to **identify** the movies... . . . DESCRIPTION OF DRAWINGS - The drawing shows a flow **chart** of **content** providing method. **Title Terms** /Index Terms/Additional

Words: **CONTENT**; . . . .**STORAGE**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date

**G06F-0015/16**... **G06F-0015/16**... Manual Codes (EPI/S-X): **T01-N01D1A**...

...**T01-N01D1B**... . . .**T01-N01D3**... . . .**T01-S03** Original Publication Data by Authority**Original Abstracts**:A broadcast system, method and apparatus providing **content** on demand. In one embodiment, the disclosed broadcast system includes a **server** that broadcasts meta-data to a plurality of clients. The meta-data describes a plurality of **data files** that are to be broadcast or potentially broadcast later by the **server**. Each client receives the broadcasted meta-data from the **server** and updates and maintains a local meta-data table and a **content** rating table. Based on the meta-data, previous access habits of the user and optional user classifications, the client system selectively receives and/or **stores** the **data files** that are later broadcast by the **server**. In one embodiment, the **client** systems transmit back to the **server ratings** of each one of the **data files** described by the meta-data based on the **user's** previously accessed **data files** and optional user **classifications**. The **server** then determines the **data files** to be broadcast and the broadcast schedule based on the **ratings** received from the clients. >Claims:What is claimed is:1. A method, comprising:receiving meta-data broadcast by a server system at a client system, the meta-data including attributes describing content of respective data files from among a plurality of data files to be broadcast at future times by the server system;updating a meta-data table stored by the client system, the meta-data table including a list of attributes correlated to relevance values and believability values, the relevance value of a corresponding attribute increased when a user of the client system indicates interest in a particular data file having the corresponding attribute, the believability value of the corresponding attribute increased when the user accesses the particular data file having the corresponding attribute;generating ratings for each of the plurality of data files via the client system based on the meta-data table and common attributes contained in the meta-data for that data file;selecting, via the client system, one or more of the plurality of data files described by the meta-data to store based on the ratings generated for the plurality of data files; andselectively storing, via the client system, the

**selected one or more of the plurality of data files in response to a later broadcast of those data files by the server system.Basic Derwent Week: 200727**

64/5, K/6 (Item 6 from file: 350) [Links](#)

Derwent WPIX

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0016136071 *Drawing available*

WPI Acc no: 2006-667702/200669

XRPX Acc No: N2006-532921

**Custom information presentation method for mobile phone, involves generating state object automatically by client, based on previously requested information, for transmission to server, if information on server is requested**

Patent Assignee: NORTEL NETWORKS LTD (NELE)

Inventor: ADAMS R G

Patent Family (1 patents, 1 countries)

Patent Number	Ki n d	Date	Application Number	Ki n d	Date	Updat e	T y p e
US 709992 9	B1	200608 29	US 1999357250	A	199907 20	2006 69	B

Priority Applications (no., kind, date): US 1999357250 A 19990720

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 7099929	B1	EN	8	6	

#### Alerting Abstract US B1

NOVELTY - The **state** objects stored at **HTTP client**, are transmitted to the **server**, after **requesting** information from **HTTP server**, so that information can be formatted in response to the sent **state** object. The formatted information is received from the **server**. The **state** object is automatically generated and **stored** by the **client**, based on **previously requested** information. The additionally generated **state** object is transmitted to **server**, if information on the **server** is **requested**. The information relating to **previously requested** information is transmitted to **client**, based on **state** object.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

1. method of transferring **state** objects between **client** and **server**;
2. communication network;
3. computer readable medium for **storing** custom information presentation program;
4. computer system; and
5. computer readable medium for **storing** **state** object transfer program.

USE - For presenting custom information such as file, document and video **related** to business, finance and product, to HTTP **client** such as computers, TV, digital phone and mobile phone, by HTTP **server**, using **state** object such as **name attribute**, **expiration attribute**, **domain attribute** and **path attribute**.

ADVANTAGE - The **state** objects are transmitted to any **server** in any domain.

DESCRIPTION OF DRAWINGS - The figure shows the flow **chart** explaining the data transfer method between client and **server**.

**Title Terms /Index Terms/Additional Words:** CUSTOM; INFORMATION; PRESENT; METHOD; MOBILE ; TELEPHONE; GENERATE; STATE; OBJECT; AUTOMATIC; CLIENT; BASED; REQUEST; TRANSMISSION; SERVE

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-0015/16	A	I	F	B	20060101
G06F-0015/16	C	I	F	B	20060101

US Classification, Issued: 709219000, 709203000, 709217000, 709227000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-N01D3; T01-N03A1; T01-S03

**Custom information presentation method for mobile phone, involves generating state object automatically by client, based on previously requested information, for transmission to server, if information on server is requested** Alerting Abstract . . . NOVELTY - The **state** objects stored at HTTP **client**, are transmitted to the **server**, after **requesting** information from HTTP **server**, so that information can be formatted in response to the sent **state** object. The formatted information is received from the **server**. The **state** object is automatically generated and **stored** by the **client**, based on **previously requested** information. The additionally generated **state** object is transmitted to **server**, if information on the **server** is **requested**. The information relating to **previously requested** information is transmitted to **client**, based on **state** object. . . . method of transferring **state** objects between **client** and **server**; communication network; computer readable medium for **storing** custom information presentation program; computer system; and computer readable medium for **storing** **state** object transfer program. . . . USE - For presenting custom information such as file, document and video **related** to business, finance and product, to HTTP **client** such as computers, TV, digital phone and mobile phone, by HTTP **server**, using **state** object such as **name attribute**, **expiration attribute**, **domain attribute** and **path attribute**. . . . ADVANTAGE - The **state** objects are transmitted to any **server** in any domain. . . . DESCRIPTION OF DRAWINGS - The figure shows the flow **chart** explaining the data transfer method between client and **server**.

**Title Terms . . . /Index Terms/Additional Words:** STATE; Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date

**G06F-0015/16... G06F-0015/16... Manual Codes (EPI/S-X): T01-N01D3...**  
**...T01-N03A1... ...T01-S03** Original Publication Data by Authority**Original**  
**Abstracts:**A system and method for transferring information between an HTTP client and an HTTP server where a state object is stored on the HTTP client before making a request to the HTTP server. The state object may be sent to any HTTP server in any domain. In one embodiment, a particular state object is sent to the HTTP server based on the information requested from the HTTP client. In another embodiment a state object is automatically created by the HTTP client based on previously requested information. Additionally, the state object and their attributes can be defined and/or created by the user. **Claims:What** is claimed is:14. A computer readable medium on an HTTP client, wherein the computer readable medium contains executable program instructions for:creating a plurality of state objects at the HTTP client including at least one automatically created state object based on previously requested information;storing the plurality of state objects and the at least one automatically created state object on the HTTP client independent of an HTTP server;requesting information from the HTTP server;sending the plurality of state objects to the HTTP server including the at least one automatically created state object when the requested information includes previously requested information; andreceiving the information from the HTTP server based on the plurality of state objects and the at least one automatically created state object.Basic Derwent Week: 200669

64/5,K/224 (Item 224 from file: 350) [Links](#)

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0009227406

WPI Acc no: 1999-154021/199913

Related WPI Acc No: 2000-126137; 2000-627613; 2001-449861; 2003-553787

XRPX Acc No: N1999-110987

**Information organization for internet includes monitoring search activity of user and organizing articles in subsequent search**

Patent Assignee: ASK JEEVES INC (ASKJ-N); CULLISS G (CULL-I)

Inventor: CULLISS G; CULLISS G A

Patent Family ( 5 patents, 27 countries )

Patent Number	K	i n Date d	Application Number	K	i n Date d	Upd a t e	T	y p e
WO 1999006924	A	1 199902 11	WO 1998US15109	A	19980722	1999 1 3	B	
AU 199920351	A	199902 22	AU 199920351	A	19980722	1999 2 7	E	
US 6006222	A	199912 21	US 1997840922	A	19970425	2000 0 6	E	
			US 1997904795	A	19970801			
US 20030187837	A	1 200310 02	US 1997904795	A	19970801	2003 6 5	E	
			US 2000684209	A	20001006			
			US 2003392510	A	20030320			
US 6816850	B	2 200411 09	US 1997904795	A	19970801	2004 7 4	E	
			US 1997960140	A	19971029			

			US 199841411	A	19980312		
			US 1999259600	A	19990301		
			US 2000684209	A	20001006		
			US 2003392510	A	20030320		

Priority Applications (no., kind, date): US 2003392510 A 20030320; US 2000684209 A 20001006; US 1999259600 A 19990301; US 199841411 A 19980312; US 1997960140 A 19971029; US 1997840922 A 19970425; US 1997904795 A 19970801

Patent Details

Patent Number	Ki n d	I Pgs a n	Draw	Filing Notes			
WO 199900692 4	A1	E 22 N	0				
National Designated States,Original	AU BR CA CN IL JP MX RU						
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE						
AU 199920351	A	E N		Based on OPI patent			
US 6006222	A	E N		C-I-P of application			
US 2003018783 7	A1	E N		Continuation of application			
				Continuation of application			
				Continuation of patent			
				Continuation of patent			
US 6816850	B2	E N		C-I-P of application			
				C-I-P of application			
				US 1997960140			

			C-I-P of application	US 199841411
			Continuation of application	US 1999259600
			Continuation of application	US 2000684209
			C-I-P of patent	US 6006222
			C-I-P of patent	US 6014665
			C-I-P of patent	US 6078916
			Continuation of patent	US 6182068
			Continuation of patent	US 6539377

### **Alerting Abstract WO A1**

**NOVELTY** - The method of organizing information includes monitoring the **search** activity of a user and from that organizing articles in a subsequent **search** by the same **user** or another **user who enters a similar search query**. In the method **scores** are assigned to articles under the key terms in the **index**. As **users** enter **search queries** and select articles, the **scores** are altered.

**DESCRIPTION** - The **scores** are then used in subsequent **searches** to organize the articles that match a **search query**. As millions of people use the Internet, type in millions of search queries, and display or select from the many articles available over the Internet, they organize the information available over the Internet through an evolutionary process.

**USE** - The method is used to organize the information available over the Internet.

**ADVANTAGE** - The invention allows organizing articles in accordance with **searching** activity of one or more **users**

**Title Terms /Index Terms/Additional Words:** INFORMATION; ORGANISE; MONITOR; SEARCH; ACTIVE; USER; ARTICLE; SUBSEQUENT

### **Class Codes**

#### **International Patent Classification**

<b>IPC</b>	<b>Class Level</b>	<b>Scope</b>	<b>Position</b>	<b>Status</b>	<b>Version Date</b>
<b>G06F-017/30;</b> <b>G06F-007/00</b>			Main		"Version 7"

US Classification, Issued: 707003000, 707005000, 707010000, 707001000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): **T01-H07C5E; T01-J05B; T01-J05B1; W01-A06B7**

**Information organization for internet includes monitoring search activity of user and organizing articles in subsequent search ...Original Titles:Personalized search methods including combining index entries for catagories of personal data... Alerting Abstract ...NOVELTY - The method of organizing information includes monitoring the search activity of a user and from that organizing articles in a subsequent search by the same user or another user who enters a similar search query. In the method scores are assigned to articles under the key terms in the index. As users enter search queries and select**

articles, the **scores** are altered. **DESCRIPTION** - The **scores** are then used in subsequent **searches** to organize the articles that match a search query. As millions of people use the Internet, type in millions of search queries, and display or... ...**ADVANTAGE** - The invention allows organizing articles in accordance with **searching** activity of one or more **users** **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G06F-017/30**... ...**G06F-007/00** Main Manual Codes (EPI/S-X): **T01-H07C5E**... ...**T01-J05B**... ...**T01-J05B1** Original Publication Data by Authority **Original Abstracts**: A method of organizing information in which the **search** activity of **previous users** is monitored and such activity is used to organize articles for future **users**. Personal data about future **users** can be used to provide different article rankings depending on the **search** activity and personal **data** of the **previous users**. .... A method of organizing information in which the **search** activity of a user is monitored and such activity is used to organize articles in a subsequent search by the same or another user who enters a similar search query. The invention operates by assigning scores to **articles** under the key terms in the **index**. As **users** enter **search queries** and select articles, the **scores** are altered. The **scores** are then used in subsequent **searches** to organize the articles that match a **search query**. As millions of people use the Internet, type in millions of search queries, and display or select from the many **articles available** over the Internet, the **ranks** the information available over the Internet through an **evolutionary** process. The invention includes additional embodiments which incorporate **category** key terms and **rating** key terms. .... A method of organizing information in which the **search** activity of previous users is monitored and such activity is used to organize articles for future users. Personal data about future users can be used... ... data is used in the development of an **index**, the **index** including entries for specific categories of personal data. The similarity or difference in the **prior** results for a **query** term determine if separate **index** entries are needed for the **categories** and terms **being** considered. A method of organizing information in which the **search** activity of a **user** is monitored and such activity is used to organize articles in a subsequent **search** by the same or another user who enters a similar search query. The invention operates by assigning scores to articles under the key terms in the **index**. As **users** enter **search queries** and select articles, the **scores** are altered. The **scores** are then used in subsequent **searches** to organize the articles that match a **search query**. As millions of **people** use the Internet, type in **millions of search queries**, and display or select from the many **articles available** over the Internet, they **rank** the information available over the Internet through an **evolutionary** process. The invention includes additional embodiments which incorporate **category** key terms and **rating** key terms. .... ulterieure effectuee par le meme utilisateur, ou par un autre utilisateur entrant une demande de recherche similaire. L'invention fonctionne de maniere a attribuer des **scores** aux articles conserves sous les termes-cles, dans l'**index**. Lorsque des utilisateurs entrent des demandes de recherche et choisissent des articles, les **scores** sont modifies, puis ils sont utilises dans des recherches **ulterieures** afin d'organiser les articles correspondant a une demande de recherche. Etant donne que des millions de personnes utilisent l'Internet, tapent par millions des demandes de recherche et affichent ou choisissent a partir des nombreux articles disponibles sur... ... informations disponibles sur l'Internet, par l'intermediaire d'un processus evolutif. L'invention comprend des modes de realisation additionnels incorporant des termes-cles de **categories** et des termes cles de **classification**.>**Claims: What is claimed is:**  
1. A method of organizing a plurality of articles comprising:(a) providing an index, the index being able to store key term groupings of at least one key term and at least one personal data element and associate each article with at least one of the key term groupings, the index further being able to associate a key term score with each article under each of the respective key term groupings when stored within the index;(b) accepting a first search query from a first user having first personal data;(c) identifying key terms that match the first search query, the key terms that match the first search query being first matched key terms;(d) identifying first personal data elements that match the first personal data, the first personal data elements that match the first personal data being first matched personal data elements;(e) displaying squibs of articles related to the first search query to the first user;(f) allowing

the first user to select at least one of the articles related to the first search query, the article selected by the first user being a selected article;(g) altering the index such that the key term score for the selected article under at least one first matched key term grouping of at least one of the first matched key terms and at least one of the first matched personal data elements is altered relative to other key term scores;(h) accepting a second search query from a second user having second personal data;(i) identifying key terms that match the second search query, the key terms that match the second search query being second matched key terms;(j) identifying second personal data elements that match the second personal data, the second personal data elements that match the first personal data being second matched personal data elements;(k) displaying squibs of articles related to the second search query to the second user, wherein the squibs of articles related to the second search query are organized in order of superiority of their key term scores under at least one second matched key term grouping of at least one of the second matched key terms and at least one of the second matched personal data elements when at least one of the second matched key terms matches at least one of the first matched key terms and when at least one of the second matched personal data elements matches at least one of the first matched personal data elements, whereby the selected article will be ranked higher for the second user than before the first user had selected the article.A method of organizing a plurality of articles comprising:(a) providing an index, the index being able to store key terms and associate each article with at least one of the key terms, the index further being able to associate a key term score with each article under each of the respective key terms when stored within the index, wherein the index is able to further associate a key term total score with each key term score;(b) accepting a first search query from a first user;(c) identifying the key terms that match the first search query to the first user;(d) allowing the first user to select at least one of the articles related to the first search query, the article selected by the first user being a selected article;(f1a) altering the index such that the key term score for the selected article under at least one of the first matched key terms is altered relative to other key term scores;(f1b) altering the index such that key term total scores of at least one of the articles related to the first search query under at least one of the first matched key terms are altered relative to other key term total scores;(g) accepting a second search query from a second user;(h) identifying key terms that match the second search query, the key terms that match the second search query being second matched key terms;(i) displaying squibs of articles related to the second search query to the second user, wherein the squibs of articles related to the second search query are organized in order of superiority of their key term scores under at least one of the second matched key terms when at least one of the second matched key terms matches at least one of the first matched key terms, whereby the selected article will be ranked higher for the second user than before the first user had selected the article.What is claimed is:1. A process of modifying an index that includes categories of personal data comprising:a) tracking user activity for articles contained in said index for query terms;b) combining index entries for categories of personal data when said user activity is not significantly different for a said query term for two or more categories of personal data....Basic Derwent Week: WO 1998US15109

64/5,K/174 (Item 174 from file: 350) [Links](#)

Derwent WPIX

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0010892581 *Drawing available*

WPI Acc no: 2001-512922/200156

Related WPI Acc No: 2001-450809

XRPX Acc No: N2001-379777

**Information sharing in computer network, by maintaining database of information units and list of clients associated with information units to respond to search request after searching cross referencing client list**

Patent Assignee: WACHTEL E I (WACH-I)

Inventor: WACHTEL E I

Patent Family ( 1 patents, 1 countries )

Patent Number	Ki	n d	Date	Application Number	Ki	n d	Date	Upda te	T y p e
US 6195654	B	1	2001022 7	US 19956863	P		19951116	20015 6	B
				US 1996751613	A		19961118		

Priority Applications (no., kind, date): US 19956863 P 19951116; US 1996751613 A 19961118

Patent Details

Patent Number	Ki	n d	L	Pgs a n	Draw	Filing Notes	
US 6195654	B1		E	22 N	14	Related to Provisional	US 1995686 3

**Alerting Abstract US B1**

**NOVELTY - Database** is maintained for information units **identifying location** of information on computer network. A list of **search clients** associated with each of information units is maintained based on utility factor. A history list of **clients who** offered useful information is maintained and associated with **search client**. The listed **clients are cross-referenced** to select information responsive to **search request**.

**DESCRIPTION** - Information is provided responsive to the highest utility **weighted search request**. The number of access of specific information is determined to determine **client utility rating** during a selected period of **time**, based on which high utility **clients are identified**. An **INDEPENDENT CLAIM** is also included for method of accessing information distributed over computer network system.

**USE** - For acquiring, storing and sharing information in computer network such as client **server**, network such as internet, client only network, for obtaining information of e.g. movie, magazine, restaurant, music, games.

**ADVANTAGE** - High quality information sharing is achieved by dividing **clients** into **categories** and dynamically matching **clients** to sources of information. Load on **server** is decreased by filtering less useful information. Traffic on the network is decreased by avoiding massive searches.

**DESCRIPTION OF DRAWINGS** - The figure shows the client **database** which contains an ordered list of **client interest categories** and information units accessed area.

**Title Terms** /Index Terms/Additional Words: INFORMATION; SHARE; COMPUTER; NETWORK; MAINTAIN; **DATABASE**; UNIT; LIST; CLIENT; ASSOCIATE; RESPOND; SEARCH; REQUEST; AFTER; CROSS; REFERENCE

#### Class Codes

##### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30			Main		"Version 7"

US Classification, Issued: 707003000, 707002000, 707005000, 707010000, 709217000, 709218000, 709219000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-J05B**

**Information sharing in computer network, by maintaining database of information units and list of clients associated with information units to respond to search request after searching cross referencing client list Alerting Abstract ...NOVELTY - Database** is maintained for information units **identifying location** of information on computer network. A list of **search clients** associated with each of information units is maintained based on utility factor. A history list of **clients** who offered useful information is maintained and associated with **search client**. The listed **clients** are **cross-referenced** to select information responsive to **search request**. **DESCRIPTION** - Information is provided responsive to the highest utility **weighted search request**. The number of access of specific information is determined to determine **client utility rating** during a selected period of **time**, based on which high utility **clients** are **identified**. An **INDEPENDENT CLAIM** is also included for method of accessing information distributed over computer network system... ...**USE** - For acquiring, storing and sharing information in computer network such as client **server**, network such as internet, client only network, for obtaining information of e.g. movie, magazine, restaurant, music, games... ...**ADVANTAGE** - High quality information sharing is achieved by dividing **clients** into **categories** and dynamically matching **clients** to sources of information. Load on **server** is decreased by filtering less useful information. Traffic on the network is decreased by avoiding massive searches... ...**DESCRIPTION OF DRAWINGS** - The figure shows the client **database** which contains an ordered list of **client interest categories** and information units accessed area.

**Title Terms** .../Index Terms/Additional Words: **DATABASE**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G06F-017/30** Main Manual Codes (EPI/S-X): **T01-J05B** Original Publication Data by Authority **Original Abstracts**: A networked information sharing model is described. The network described comprises a client-server model or a client only model. There exists a shared information

**database**, a shared **category database**, a shared interest **profile database** and a shared client enhancement **database**, each of which is continually and dynamically updated. The shared **category database** contains **categories** of interests, within which are **weighted** and marked information units. **Weights** are arrived at by empirical use. Marks are maintained to distinguish **where** the information came from and to access information according to client source preference. The shared interest **profile** contains a set of profiles which **clients** are associated with. Useful **client categories** within **profiles** are offered **when requested**. A shared **client enhancement** list is maintained to **identify** and **weight** useful sources of information. A **client specific database** is maintained with **client categories**, preferred information sources, **weights** and **weighted** information access history. This **database** is used in conjunction with the shared **databases** to provide intelligent information sharing. **Claims:** In a computer network system **where** information is distributed among a plurality of distributed computers coupled to said network, a method of accessing information over said network by a **search client associated with** one of said distributed computers, said method comprising the steps of: generating a **request** for information by said search client; maintaining a history list of clients who have previously offered useful information for said search client; identifying clients on... ... with at least one of said identified clients on said history list of clients; selecting responsive information based on said associating step; and providing a **ranked** set of information in response to said **request** for information, said **ranking** based on said utility **weight** supplied by at least one of said **clients** on said history list of **clients** in response to said associating and selecting steps.>Basic Derwent Week: 200156

64/5,K/163 (Item 163 from file: 350) [Links](#)

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0010982264 *Drawing available*

WPI Acc no: 2001-606762/200169

XRPX Acc No: N2001-452874

**Computer based information search method for wide variety platforms, involves categorizing a search inquiry into categories having feature table with entries representative of characteristics of category**

Patent Assignee: INVENTEC CORP (INVE-N)

Inventor: CHANG J C S; HO D D S; XIA L L M

Patent Family ( 1 patents, 1 countries )

Patent Number	Ki n d	Date	Application Number	Ki n d	Date	Upda te	T y p e
US 6298343	B	1 2001100 2	US 1997998955	A	19971229	20016 9	B
			US 1997998955	A	19971229		

Priority Applications (no., kind, date): US 1997998955 A 19971229

Patent Details

Patent Number	Ki n d	L E	Pgs a n	Draw	Filing Notes	
US 6298343	B	1	E N	14 7	Continuation of application	US 199799895 5

#### Alerting Abstract US B1

**NOVELTY - A search inquiry is categorized into categories having feature table with entries representative of characteristics of category.** Entries of feature table is compared with **search inquiry** to generate position indicator to position entries in search table. Search inquiry is compared with entries in search table at position indicated by indicator to detect **database addresses** of entries for retrieving and displaying process.

**DESCRIPTION - An INDEPENDENT CLAIM** is also included for program storage device storing program for information searching method.

**USE - Used for wide variety platforms and applications.**

**ADVANTAGE - The information pertinent to a search inquiry of any format and language is retrieved by**

analyzing and categorizing the search inquiry prior to searching and retrieving of information from database.

**DESCRIPTION OF DRAWINGS** - The figures show the block diagram of search engine and flowchart of the computer based searching method showing the steps in checking history table.

**Title Terms /Index Terms/Additional Words:** COMPUTER; BASED; INFORMATION; SEARCH; METHOD ; WIDE; VARIETY; PLATFORM; ENQUIRY; **CATEGORY**; FEATURE; TABLE; ENTER; REPRESENT; **CHARACTERISTIC**

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-009/00			Main		"Version 7"

US Classification, Issued: 707005000, 707004000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-E01C; T01-J05B3; T01-J05B4M; T01-J16C3; T01-S03

**Computer based information search method for wide variety platforms, involves categorizing a search inquiry into categories having feature table with entries representative of characteristics of category**  
**Original Titles:**Methods for intelligent universal database search engines. Alerting Abstract ...NOVELTY - A search inquiry is categorized into categories having feature table with entries representative of characteristics of category. Entries of feature table is compared with search inquiry to generate position indicator to position entries in search table. Search inquiry is compared with entries in search table at position indicated by indicator to detect database addresses of entries for retrieving and displaying process.

**DESCRIPTION** - An INDEPENDENT CLAIM is also included for program storage device storing program for information searching method... ...ADVANTAGE - The information pertinent to a search inquiry of any format and language is retrieved by analyzing and categorizing the search inquiry prior to searching and retrieving of information from database. **Title Terms .../Index Terms/Additional Words:**

**CATEGORY; ... ...CHARACTERISTIC** Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date G06F-009/00 Main Manual Codes (EPI/S-X): T01-E01C...

...T01-J05B3... ...T01-J05B4M... ...T01-J16C3... ...T01-S03 Original Publication Data by

**AuthorityOriginal Abstracts:**A method and apparatus for processing user-submitted search information to permit a database to be searched regardless of the format and language of the user-submitted information. The user-submitted information is first categorized into one or more categories, where each category is a type of information such as a date, a proper name or a place. For each category pertaining to the user-submitted information, the search is refined by comparing the user-submitted information to a feature table containing specific data types corresponding to each category. From the results of any affirmative comparison with the feature table, a starting location within a corresponding search table is retrieved. The search is further refined by comparing the user-submitted information to the entries of the search table beginning at the starting location. From the results of any affirmative comparison with the search table entries a database address is obtained which is used to obtain a database entry sought after by the user. ...Claims:based upon a provided search inquiry, said search inquiry being in any format and language,

comprising the steps of:receiving a search inquiry, in any **format and language**, having one or more characters **where each character is represented** by a code;categorizing said **search inquiry** into one or more of a plurality of **categories**, each of said **categories** having a corresponding feature table **having** entries representative of the **characteristics** of said **category**;comparing entries in said feature table with said **search inquiry** to generate one or more position **indicators** to positions of one or more entries in one or more search tables, each of said search tables having entries each including a keyword **and** one or more corresponding database addresses, the same or similar keywords being placed near each other;comparing said **search inquiry** with entries in said **search table** starting with the entries at positions as indicated by said position indicators to determine one or more **database addresses** corresponding to said **search inquiry**;retrieving and displaying one or more entries from one or more **databases** corresponding to said one or more **database addresses**, and updating the **history table** entries if said **search inquiry** was not found in the **history table**.Basic Derwent Week: 200169

64/5,K/161 (Item 161 from file: 350) [Links](#)

Derwent WPIX

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0011031108 *Drawing available*

WPI Acc no: 2001-657055/200175

XRPX Acc No: N2001-489769

**Database search system for Internet involves associating classifications with categories for search engine operation**

Patent Assignee: I411 INC (IFOU-N); TALIB I (TALI-I); TALIB I A (TALI-I); TALIB Z (TALI-I); TALIB Z A (TALI-I)

Inventor: TALIB I; TALIB I A; TALIB Z; TALIB Z A

Patent Family ( 11 patents, 93 countries )

Patent Number	K	i n d	Application Number	K	i n d	Upd a t e	T	y p e
WO 200107572 8	A	1 200110 11	WO 2001US10185	A	2001033 0	2001 7 5	B	
US 2001004475 8	A	1 200111 22	US 2000193263	P	2000033 0	2001 7 6	E	
			US 2001820661	A	2001033 0			
US 2001004483 7	A	1 200111 22	US 2000193263	P	2000033 0	2001 7 6	E	
			US 2001820613	A	2001033 0			
US 2001004735 3	A	1 200111 29	US 2000193263	P	2000033 0	2002 0 2	E	
			US 2001820662	A	2001033 0			
US 2001004967 4	A	1 200112 06	US 2000193263	P	2000033 0	2002 0 3	E	
			US 2001820660	A	2001033 0			

US 2001004967 7	A	1 200112 06	US 2000193263	P	2000033 0	2002 0 3	E
			US 2001820659	A	2001033 0		
AU 200151123	A	200110 15	AU 200151123	A	2001033 0	2002 0 9	E
EP 1269382	A	1 200301 02	EP 2001924472	A	2001033 0	2003 1 0	E
			WO 2001US10185	A	2001033 0		
US 2004023046 1	A	1 200411 18	US 2000193263	P	2000033 0	2004 7 7	E
			WO 2001US10185	A	2001033 0		
			US 2003240275	A	2003053 0		
US 2005021644 7	A	1 200509 29	US 2000193263	P	2000033 0	2005 6 4	E
			US 2001820659	A	2001033 0		
			US 2004945526	A	2004092 0		
US 2005021644 8	A	1 200509 29	US 2000193263	P	2000033 0	2005 6 4	E
			US 2001820613	A	2001033 0		
			US 2004947549	A	2004092 2		

Priority Applications (no., kind, date): US 2004947549 A 20040922; US 2004945526 A 20040920; US 2003240275 A 20030530; US 2001820662 A 20010330; US 2001820661 A 20010330; US 2001820660 A 20010330; US 2001820659 A 20010330; US 2001820613 A 20010330; US 2000193263 P 20000330

Patent Details

Patent Number	Kind	IPgs a n	Draw	Filing Notes			
WO 200107572 8	A1	E 89 N	22				
National Designated States,Origin al	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW						
Regional Designated States,Origin al	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW						
US 2001004475 8	A1	E N		Related to Provisional	US 2000193263		
US 2001004483 7	A1	E N		Related to Provisional	US 2000193263		
US 2001004735 3	A1	E N		Related to Provisional	US 2000193263		
US 2001004967 4	A1	E N		Related to Provisional	US 2000193263		
US 2001004967 7	A1	E N		Related to Provisional	US 2000193263		
AU 200151123	A	E N		Based on OPI patent	WO 2001075728		
EP 1269382	A1	E N		PCT Application	WO 2001US1018 5		
				Based on OPI patent	WO 2001075728		
Regional Designated States,Origin al	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR						
US 2004023046 1	A1	E N		Related to Provisional	US 2000193263		

				PCT Application	WO 2001US1018 5
US 2005021644 7	A1	E	N	Related to Provisional	US 2000193263
				Continuation of application	US 2001820659
US 2005021644 8	A1	E	N	Related to Provisional	US 2000193263
				Continuation of application	US 2001820613

### Alerting Abstract WO A1

**NOVELTY** - Data entries organized into **category classification** e.g. product type. **Search** engine operating on the **classifications** and **categories** to provide only those **categories** with a non-zero number of entries. In response to a string query it provides the entries which both contain the string and are associated with the **identified classifications**. A cache **stores** the **search** engine results for rapid retrieval.

**DESCRIPTION** - System is a network of computers and comprises an organizer receiving **search requests** with a collection of data entries organized into **taxonomies** such as product type, price, color, style, manufacturer, compatibility, year, SIC code, NAICs code, UNSPC standard, company information, molecular function, publication **name**, Dewey Decimal **identification**, salary etc. associated with **categories**, and a **search** engine operating on the **taxonomies** and **categories** to provide only those **categories** with a non-zero number of entries. In response to a string query it provides the entries which both contain the string and are associated with the **identified taxonomies**. A cache **stores** the **search** engine results for rapid retrieval.

There are **INDEPENDENT CLAIMS** for (1) a method of searching a **database**, (2) a computer program.

**USE** - Not given.

**ADVANTAGE** - System is a **multi-taxonomy multi-category search** tool allowing the **user** to navigate through a **database** using any **taxonomy** at any time. It supplies **categories** for **users** to select from instead of a long list, has a very small footprint, making it ideal for wireless devices and enables personalization or customization of collections of information.

**DESCRIPTION OF DRAWINGS** - The figure shows how a query interacts with indices and how the indices relate to records in a **database**.

**Title Terms /Index Terms/Additional Words:** **DATABASE**; **SEARCH**; **SYSTEM**; **ASSOCIATE**; **CATEGORY**; **ENGINE**; **OPERATE**

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-015/16; G06F-017/30; G06F-017/60; G06F-007/00</b>			Main		"Version 7"

US Classification, Issued: 705027000, 707104100, 707010000, 705026000, 707200000, 709219000, 709203000, 707003000, 707104100, 707001000, 707003000, 707004000, 705007000, 707003000, 707003000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-H03A; T01-H07C5E; T01-J05A2; T01-J05B2B; T01-J05B3; T01-J05B4A; T01-S03**

**Database search system for Internet involves associating classifications with categories for search engine operation** **Original Titles:** VERFAHREN UND SYSTEME ZUR ERMÖGLICHUNG EINES EFFIZIENTEN ABRUFENS VON DATEN AUS DATENSAMMLUNGEN... ...Methods and systems for searching an information **directory** ... ...Methods and systems for enabling efficient retrieval of documents from a document **archive** ... ...Methods and systems for enabling efficient retrieval of documents from a document **archive** ... ...Methods and systems for searching an information **directory** **Alerting Abstract** ... **NOVELTY** - Data entries organized into **category classification** e.g. product type. **Search engine** operating on the **classifications** and **categories** to provide only those **categories** with a non-zero number of entries. In response to a string query it provides the entries which both contain the string and are associated with the **identified classifications**. A **cache stores** the **search engine** results for rapid retrieval.

**DESCRIPTION** - System is a network of computers and comprises an organizer receiving **search requests** with a collection of data entries organized into **taxonomies** such as product type, price, color, style, manufacturer, compatibility, year, SIC code, NAICs code, UNSPC standard, company information, molecular function, publication **name**, Dewey Decimal **identification**, salary etc. associated with **categories**, and a **search engine** operating on the **taxonomies** and **categories** to provide only those **categories** with a non-zero number of entries. In response to a string query it provides the entries which both contain the string and are associated with the **identified taxonomies**. A **cache stores** the **search engine** results for rapid retrieval... ...**There are INDEPENDENT CLAIMS for (1) a method of searching a database, (2) a computer program...** ...**ADVANTAGE** - System is a **multi-taxonomy multi-category search tool** allowing the **user** to navigate through a **database** using any **taxonomy** at any **time**. It supplies **categories** for **users** to select from instead of a long list, has a very small footprint, making it ideal for wireless devices and enables personalization or customization of... ...**DESCRIPTION OF DRAWINGS** - The figure shows how a query interacts with indices and how the indices relate to records in a **database**. **Title Terms /Index Terms/Additional Words:** **DATABASE**; ... ...**CATEGORY**; **Class Codes International Patent Classification** **IPC Class Level Scope Position Status Version Date G06F-015/16... ...G06F-017/30... ...G06F-017/60...** ...**G06F-007/00** **Main Manual Codes (EPI/S-X): T01-H03A... ...T01-H07C5E... ...T01-J05A2... ...T01-J05B2B... ...T01-J05B3... ...T01-J05B4A... ...T01-S03** **Original Publication Data by Authority**

**Original Abstracts:** The present invention relates to systems and methods for interactively searching a **database** (905) in such a manner that it is quick and easy to search, drill down, drill-up and drill across a data collection (905) presenting the **user** with summary information **using** multiple independent **hierarchical category taxonomies** (915) of the **data** collection (905). The present invention also relates to business methods associated with providing information to **users** based on the **searching** systems and methods, **and** the revenue stream attached thereto. The present invention also relates to retrieving information from a **database** based on **content aggregation**, management and **distribution**. ... ... for searching a product catalog data collection in such a manner that it is easy to search, drill down, drill-up and drill across products in the data collection using multiple, independent **hierarchical category taxonomies**

of the products in the product **catalog data collection**. . . . . The present invention relates to systems and methods for searching an information **directory** in such a manner that it is easy to search, drill down, drill up and drill across an information directory using multiple independent **hierarchical category taxonomies** of the **directory**. . . . . such a manner that it is easy to search, drill down, drill-up and drill across biological data in the data collection using multiple, independent **hierarchical category taxonomies** of the biological data in the bioinformatics data collection. . . . . for searching a data collection of employment information in such a manner that it is easy to search, drill down, drill-up and drill across the data collection using multiple independent **hierarchical category taxonomies** of the data collection. The present invention relates to systems and methods for **searching** a document archive in such a manner that it is easy to search, drill down, drill-up and drill across documents in an archive using multiple, independent **hierarchical category taxonomies** of the document archive. The present invention relates to systems and methods for interactively searching a **database** (905) in such a manner that it is quick and easy to search, drill down, drill-up and drill across a data collection (905) presenting the **user** with summary information using multiple independent **hierarchical category taxonomies** (915) of the data collection (905). The present invention also relates to **business** methods associated with providing information to users based on the searching systems and methods, and the revenue stream attached thereto. The present invention **also relates** to retrieving information from a **database based on content** aggregation, management and distribution. The present invention relates to systems and methods for **searching** a document archive in such a manner that it is easy to **search**, drill down, drill-up and drill across documents in an **archive** using multiple, independent **hierarchical category taxonomies** of the document **archive**. The present invention relates to systems and methods for searching an information **directory** in such a manner that it is easy to search, drill down, drill up and drill across an information **directory** using multiple independent **hierarchical category taxonomies** of the **directory**.

**Claims:1.** A system for searching an electronic product catalog, said system comprising:an organizer configured to receive search requests, said organizer comprising:an **electronic product catalog** having at least two entries;wherein the electronic product catalog is organized into at least **two taxonomies**;wherein each of the at least two **taxonomies** is **associated** with at least two **categories**;wherein the entries correspond to at least one of the at least two **taxonomies and also** correspond to at least one of the at least two **categories**; and a search engine in communication with the electronic product catalog,wherein said search engine is configured to search based on the at least two taxonomies and based on the at least two categories,wherein the search engine returns, in response to a **search request identifying** at least a first **taxonomy of the at least two taxonomies**, a list of the **categories** associated with the at least first **identified taxonomy**, along with the number of entries associated with each of the **categories** associated with the at least first **identified taxonomy**.

**1.** A system for searching an information **directory**, said system comprising:an organizer configured to receive search requests, said organizer comprising:an information **directory** having at least two entries;wherein the information directory is organized into at least two taxonomies;wherein each of the at least two taxonomies is... . . . least two categories,wherein the search engine returns, in response to a search request identifying at least a first taxonomy of the at least two **taxonomies**, a list of the **categories** associated with the at least first **identified taxonomy**, along with the number of **entries** associated with each of the **categories** associated with the at least first **identified taxonomy**.

**1.** A system for **searching** a bioinformatics data collection, said system comprising:an organizer configured to receive search requests, said organizer comprising:a bioinformatics data collection having at least two entries;wherein the bioinformatics data collection is organized into at least two **taxonomies**;wherein each of the at least two **taxonomies** is **associated** with at least two **categories**;wherein the entries correspond to at least one of the at least two **taxonomies and also** correspond to at least one of the at least two **categories**; and a search engine in communication with the electronic product catalog,wherein said search engine is configured to search based on the at least two... . . . of

entries associated with each of the categories associated with the at least first identified taxonomies.1. A system for searching a collection of employment and job data, said system comprising: an organizer configured to receive search requests, said organizer comprising: a collection of employment and job data having at least two entries; wherein the collection of employment and job data is organized into at least two taxonomies; wherein each of the at least two taxonomies is associated with at least two categories; wherein the entries correspond to at least one of the at least two taxonomies and also correspond to at least one of the at least two categories; and a search engine in communication with the collection of employment and job data, wherein said search engine is configured to search based on the at least two taxonomies and based on the at least two categories, wherein the search engine returns, in response to a search request identifying at least a first taxonomy of the at least two taxonomies, a list of the categories associated with the at least first identified taxonomy, along with the number of entries associated with each of the categories associated with the at least first identified taxonomy....Basic Derwent Week: 2001WO-US0010185

64/5,K/159 (Item 159 from file: 350) [Links](#)

Derwent WPIX

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WPI Acc no: 2001-408727/200143

XRPX Acc No: N2001-302459

**Facilitating searches for web pages that include product offerings by online merchant using Internet search engine by receiving search query from user and determining whether search query satisfies selected criteria**

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Inventor: BAILEY D R; BOWMAN D E; FELDMAN T J; FORD J L; ORTEGA R E; RAJARAMAN A; SCOFIELD C L

Patent Family (9 patents, 93 countries)

Patent Number	K	i n Date d	Application Number	K	i n Date d	Upd a t e	T y p e
WO 2001046870	A	1 200106 28	WO 2000US42645	A	20001207	2001 4 3	B
AU 200147126	A	200107 03	AU 200147126	A	20001207	2001 6 4	E
EP 1240605	A	1 200209 18	EP 2000992854	A	20001207	2002 6 9	E
			WO 2000US42645	A	20001207		
US 20030195877	A	1 200310 16	US 1999169570	P	19991208	2003 6 9	E
			US 2000528127	A	20000317		
			US 2003404992	A	20030331		
US 6785671	B	1 200408 31	US 1999169570	P	19991208	2004 5 7	E

			US 2000528138	A	20000317		
US 2005000488 9	A	1 200501 06	US 1999169570	P	19991208	2005 0 4	E
			US 2000528138	A	20000317		
			US 2004909134	A	20040730		
US 6963867	B	2 200511 08	US 1999169570	P	19991208	2005 7 3	E
			US 2000528127	A	20000317		
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			US 2000528127	A	20000317		
			US 2003404992	A	20030331		
			US 2005186403	A	20050721		
US 2006016786 4	A	1 200607 27	US 1999169570	P	19991208	2006 5 0	E
			US 2000528138	A	20000317		
			US 2004909134	A	20040730		
			US 2006393066	A	20060330		

Priority Applications (no., kind, date): US 2006393066 A 20060330; US 2005186403 A 20050721; US 2004909134 A 20040730; US 2003404992 A 20030331; US 2000528138 A 20000317; US 1999169570 P 19991208; US 2000528127 A 20000317

Patent Details

Patent Numbe	Kind	IPgs	Draw	Filing Notes
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WO 2001046870	A1	E44	N	9	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW				
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW				
AU 200147126	A	E	N	Based on OPI patent	WO 2001046870
EP 1240605	A1	E	N	PCT Application	WO 2000US42645
				Based on OPI patent	WO 2001046870
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				
US 20030195877	A1	E	N	Related to Provisional	US 1999169570
				Continuation of application	US 2000528127
US 6785671	B1	E	N	Related to Provisional	US 1999169570
US 20050004889	A1	E	N	Related to Provisional	US 1999169570
				Continuation of application	US 2000528138
				Continuation of patent	US 6785671
US 6963867	B2	E	N	Related to Provisional	US 1999169570
				Continuation of application	US 2000528127
US 20050289140	A1	E	N	Related to Provisional	US 1999169570

				Continuation of application	US 2000528127
				Continuation of application	US 2003404992
				Continuation of patent	US 6963867
US 200601678 64	A1	E	N	Related to Provisional	US 1999169570
				Continuation of application	US 2000528138
				Continuation of application	US 2004909134
				Continuation of patent	US 6785671

### Alerting Abstract WO A1

**NOVELTY** - A **score** is generated that indicates likelihood that a web page includes a product offering. A representation of the web page is then generated and **stored**, including an **address** of the web page, for subsequently determining whether it satisfies a **search query**. The latter received from a **user** determines whether a web page satisfies the **search query** for which the generated **score** satisfies selected **criteria**.

**DESCRIPTION** - INDEPENDENT CLAIMS are included for:

- A. a product oriented web **search** engine system
- B. a **method** for assisting a **user** in purchasing a product on **line**
- C. a computer implemented method for processing a **search query** received from **user**

**USE** - In the field of **search engines** for facilitating viewing search results that span multiple item categories, and for locating web pages that include offerings for products and other types of items for assisting **users** in conducting online **searches**.

**ADVANTAGE** - Displays the results of multiple **category search** according to levels of **significance** of the **categories to a user's search query**. Displays the results of a **search for** products **or** for any other type of item.

**DESCRIPTION OF DRAWINGS** - The drawing illustrates the process used to generate the product spider **database** according to the present invention.

**Title Terms /Index Terms/Additional Words:** FACILITATE; SEARCH; WEB; PAGE; PRODUCT; MERCHANT; ENGINE; RECEIVE; QUERY; USER; DETERMINE; SATISFY; SELECT; CRITERIA

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-017/30</b>			Main		"Version 7"
<b>G06F-0017/30</b>	A	I		R	20060101
<b>G06F-0017/30</b>	A	I	F	B	20060101
<b>G06Q-0030/00</b>	A	I		R	20060101
<b>G06F-0017/30</b>	C	I		R	20060101
<b>G06Q-0030/00</b>	C	I		R	20060101

US Classification, Issued: 707003000, 707001000, 707005000, 707003000, 707002000, 707004000, 707005000, 707006000, 707010000, 705005000, 705014000, 705026000, 707003000, 707007000, 707003000

File Segment: EPI;

DWPI Class: T01; T05

Manual Codes (EPI/S-X): T01-H07C3C; T01-H07C5E; T01-J05A1; T01-J05B3; T05-L

**Facilitating searches for web pages that include product offerings by online merchant using Internet search engine by receiving search query from user and determining whether search query satisfies selected criteria ...Original Titles:Search query processing to provide category- ranked presentation of search results... ...Search engine system and associated content analysis methods for locating web pages with product offerings.... ...Search query processing to provide category- ranked presentation of search results... ...Search query processing to provide category- ranked presentation of search results Alerting Abstract ...NOVELTY - A score is generated that indicates likelihood that a web page includes a product offering. A representation of the web page is then generated and stored, including an address of the web page, for subsequently determining whether it satisfies a search query. The latter received from a user determines whether a web page satisfies the search query for which the generated score satisfies selected criteria. ... a product oriented web search engine system a method for assisting a user in purchasing a product on line a computer implemented method for processing a search query received from user USE - In the field of search engines for facilitating viewing search results that span multiple item categories, and for locating web pages that include offerings for products and other types of items for assisting users in conducting online searches.ADVANTAGE - Displays the results of multiple category search according to levels of significance of the categories to a user's search query. Displays the results of a search for products or for any other type of item.... ... DESCRIPTION OF DRAWINGS - The drawing illustrates the process used to generate the product spider database according to the present invention.Title Terms .../Index Terms/Additional Words: CRITERIA Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date G06F-017/30 Main G06F-0017/30... ...G06F-0017/30 G06F-0017/30... Manual Codes (EPI/S-X): T01-H07C3C... ...T01-H07C5E... ...T01-J05A1... ...T01-J05B3 Original Publication Data by AuthorityOriginal Abstracts: A search engine system (130) displays the results of a multiple-category search according to levels of relevance of the categories to a user's search query. A query server (140) receives a search query (620) from a user (110) and identifies, within each of multiple item categories, a set of items that satisfy the query (640). The sets of items are then used to generate, for each of the multiple categories, a score that indicates a level significance or relevance of the category to the search (650). The scores may be based, for example, on the number of.... ... The categories are then presented to the user, together with the most relevant items within each category, in the order of highest to lowest category relevance (660). The search engine also implements a feature for assisting users in locating web pages from which user-specified products can be purchased. Web pages (167) located by a crawler program (160) are scored, based on a set of rules, according to likelihood of including an online product offering (170). A query server (140) accesses an index (147) of the scored web pages to locate pages that are both responsive to a user's search query and likely to include a product offering. In one embodiment, the responsive web pages are listed on a composite search results page (300) together with products that satisfy the.... ... A search engine system displays the results of a multiple-category search according to levels of relevance of the categories to a user's search query. A... ... satisfy the query. The sets of items are used to generate, for each of the multiple categories, a score that reflects a level significance or relevance of the category to the search. The scores may be based, for example, on the number of hits**

within each **category** relative to the total number of items in that category, the popularity levels of items that satisfy the query, a personal profile of the user, or a combination thereof. The categories are then presented to the user, together with the most **relevant** items within each **category**, in the order of **highest** to lowest **category relevance**. A **search** engine system assists users in locating web pages from which user-specified products can be purchased. Web pages located by a crawler program are scored... ... of criteria, according to likelihood of including a product offering. A query server accesses an index of the scored web pages to locate pages that are **both** responsive to a user's **search query** and likely to include a product offering. In one embodiment, the responsive web pages are listed on a composite **search results** page together with products that satisfy the query... ... A **search** engine system displays the results of a multiple-category search according to levels of relevance of the categories to a user's search query. A... ... that satisfy the query, a personal profile of the user, or a combination thereof. The categories are then presented to the user, together with the most **relevant** items within each **category**, in the order of highest to lowest **category relevance**. A **search** engine system assists users in locating web pages from which user-specified products can be purchased. Web pages located by a crawler program are scored, based on a set of criteria, according to likelihood of including a product offering. A query server accesses an index of the **scored web** pages to locate pages that are **both** responsive to a user's **search query** and likely to include a product offering. In one embodiment, the responsive web pages are listed on a composite **search results** page together with responsive products included in a product catalog.

A **search** engine system assists users in locating web pages from which user-specified products can be purchased. Web pages located by a crawler program are scored... ... including an online product offering. A query server accesses an index of the scored web pages to locate pages that are both responsive to a user's **search query** and likely to include a product offering. In one embodiment, the responsive web pages are listed on a composite **search results** page together with products that satisfy the query. ... ... A **search** engine system displays the results of a multiple-category search according to levels of relevance of the categories to a user's search query. A query server receives a search query from a user and identifies, within each of multiple item categories, a set of items that satisfy the query. The sets of items are used to generate, for each of the multiple **categories**, a **score** that reflects a level **significance** or **relevance** of the **category** to the **search**. The **scores** may be based, for example, on the number of hits within each **category** relative to the **total** number of items in that category, the popularity levels of items that satisfy the query, a personal profile of the user, or a combination thereof. The **categories** are then presented to the user, together with the most **relevant** items within each **category**, in the order of highest to lowest **category relevance**. A **search** engine system (130) displays the results of a multiple-category search according to levels of relevance of the categories to a user's search query... ... receives a search query (620) from a user (110) and identifies, within each of multiple item categories, a set of items that satisfy the query (640). The sets of items are then used to generate, for each of the multiple **categories**, a **score** that indicates a level **significance** or **relevance** of the **category** to the **search** (650). The **scores** may be based, for example, on the number of hits (items satisfying the **query**) within each category relative to the total number of items in that category, the popularity levels of items (756) that satisfy the query, or a... ... of including an online product offering (170). A query server (140) accesses an index (147) of the scored web pages to locate pages that are **both** responsive to a user's **search query** and likely to include a product offering. In one embodiment, the responsive web pages are listed on a composite **search results** page (300) together with products that satisfy the **query**. ... ... L'invention concerne un systeme de moteur de recherche (130) affichant les resultats d'une recherche a **categories** multiples en fonction du niveau de **pertinence** des **categories** par rapport a la demande de recherche de l'utilisateur. Un serveur de demandes (140) reçoit une demande de recherche (620) de la part d'un utilisateur (110) et **identifie**, dans chaque **categorie** d'elements, une serie d'elements correspondant a la demande (640). On utilise ensuite les series d'elements pour etablir, dans chacune des **categories**, un **score** indiquant un niveau de **signification** ou de **pertinence** pour telle ou

telle **categorie** par rapport a la recherche (650). Le **score** peut reposer par exemple sur le nombre de consultations (elements correspondant a la demande) dans chaque **categorie** par rapport au **nombre** total d'elements de la **categorie concernee**, ou le **niveau** de popularite des elements (756) correspondant a la demande, ou bien une **combinaison** des deux. Les **categories** sont ensuite presentees a l'utilisateur, avec les elements les plus

**pertinent**s de chaque **categorie**, dans un ordre de **pertinence de categorie decroissant**, du plus **pertinent** au moins **pertinent** (660). En outre, le moteur de recherche propose une fonction d'aide a l'**utilisateur** dans la localisation de pages Web a partir desquelles des produits **specifies** par l'**utilisateur** peuvent etre achetes. Les **pages** Web (167) localisees par un **programme** de recherche (160) recoivent un **score**, sur la base d'un ensemble de regles, permettant de mesurer la presence eventuelle d'une offre de produit en ligne (170). Un serveur de demandes (140) accede a un **index** (147) des pages Web ainsi notees afin de localiser les pages qui **correspondent** a la demande de recherche de l'utilisateur et qui contiennent eventuellement une offre de produit. Selon une variante, les pages Web constituant le domaine de reponse sont notees sur **une** page de resultats de recherche composite (300) de meme que d'autres produits repondant a la demande.

**Claims:What is claimed is:**1. A method of assisting **users** in locating items that are arranged within a **database** system by category, the method comprising:monitoring user actions performed with respect to specific items in the database system to generate item usage data;calculating... ... multiple categories of the database system, items that are responsive to the search query ("responsive items");for each of the multiple categories, calculating a respective **category** score based at least in-part on the item **scores** of responsive items in **that category**; anddetermining an **order** in which to present the multiple **categories** to the **user** such that the order is **dependent** upon the **category scores**.**What is claimed is:**1. A computer-implemented method of analyzing web page **content**, the method comprising:retrieving a web page located by a **crawler** program;programmatically analyzing **content** of the web page to evaluate whether the web page includes a product offering; andgenerating, based at least in part on the programmatic analysis of the web page, a **score** that reflects a likelihood that the web page includes a product offering.1. A computer-implemented method for processing a **search query** specified by a **user** so as to personalize a presentation of **search results**, the method comprising:identifying, within each of a plurality of **categories**, one or more items that are responsive to the search query ("responsive items");calculating a respective category score for each of the plurality of categories... ... the category scores;whereby the order in which the categories are presented is personalized for the user.**What is claimed is:**1. A **search** engine system, comprising: a **crawler** configured to **crawl** web sites and to locate web pages of said web sites;a **score** generator configured to analyze the web pages located by the **crawler**, and to generate **scores** reflective of likelihoods that particular web pages located by the **crawler** include a product offering; andan **index** tool configured to use the **scores** generated by the **score** generator to generate an **indexed data repository** that provides functionality for substantially excluding, from a scope of a **search**, web pages that do not include a product offering.**What is claimed is:**1. A method for facilitating searches for web pages that include product offerings, comprising:for each of a plurality of web pages located by a **crawling** program: (a) generating a **score** that indicates a likelihood that the web page includes a product offering, and (b) generating and **storing** a representation of the web page, including an **address** of the web page, for subsequently determining whether the web page satisfies a **search query**;receiving a search query from a user; anddetermining whether the search query is satisfied by a web page for which the score generated in (a) satisfies selected criteria;whereby the need for the **user** to consider web pages that satisfy the **search query** but that do not include product offerings is substantially reduced.1. A computer-implemented method of assisting users...Basic Derwent Week: 2000WO-US0042645

64/5,K/146 (Item 146 from file: 350) Links

Derwent WPIX

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WPI Acc no: 2002-217242/200227

XRPX Acc No: N2002-166441

**Website category search method involves displaying category identifier based on matches of search term with hierarchy of category identifier and terms related to categories**

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Inventor: DONALDSON T E; GOEL S; KELLUM D E; MARTIN W

Patent Family ( 12 patents, 93 countries )

Patent Number	K	i n d	Application Number	K	i n d	Upd a t e	T	y p e
WO 200201306 4	A	2 200202 14	WO 2001US24077	A	2001080 1	2002 2 7	B	
AU 200178107	A	200202 18	AU 200178107	A	2001080 1	2002 4 4	E	
US 2002010378 6	A	1 200208 01	US 2000223695	P	2000080 8	2002 5 3	E	
			US 2000749629	A	2000122 8			
US 2002010378 7	A	1 200208 01	US 2000223695	P	2000080 8	2002 5 3	E	
			US 2000749639	A	2000122 8			
US 2002010378 8	A	1 200208 01	US 2000223695	P	2000080 8	2002 5 3	E	
			US 2000749798	A	2000122 8			
US 2002010379 7	A	200208 01	US 2000223695	P	2000080 8	2002 5	E	

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			US 2000749627	A	2000122 8		
US 7007008	B	2 200602 28	US 2000223695	P	2000080 8	2006 1 6	E
			US 2000749639	A	2000122 8		
AU 2001278107	A	8 200510 27	AU 2001278107	A	2001080 1	2006 2 4	E
US 7047229	B	2 200605 16	US 2000223695	P	2000080 8	2006 3 3	E
			US 2000749629	A	2000122 8		
US 2006018451 5	A	1 200608 17	US 2000223695	P	2000080 8	2006 5 5	E
			US 2000749639	A	2000122 8		
			US 2005265800	A	2005110 1		
US 2006024212 8	A	1 200610 26	US 2000223695	P	2000080 8	2006 7 1	E
			US 2000749629	A	2000122 8		
			US 2006364084	A	2006030 1		
US 7225180	B	2 200705 29	US 2000223695	P	2000080 8	2007 3 6	E
			US 2000749798	A	2000122 8		

Priority Applications (no., kind, date): US 2000223695 P 20000808; US 2000749627 A 20001228; US 2000749629 A 20001228; US 2000749639 A 20001228; US 2000749798 A 20001228; US 2005265800 A

## Patent Details

Patent Number	Kind	IPgs a n	Draw	Filing Notes
WO 200201306 4	A2	E 82 N	10	
National Designated States,Origin al	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW			
Regional Designated States,Origin al	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW			
AU 200178107	A	E N		Based on OPI patent WO 200201306 4
US 2002010378 6	A1	E N		Related to Provisional US 2000223695
US 2002010378 7	A1	E N		Related to Provisional US 2000223695
US 2002010378 8	A1	E N		Related to Provisional US 2000223695
US 2002010379 7	A1	E N		Related to Provisional US 2000223695
US 7007008	B2	E N		Related to Provisional US 2000223695
AU 2001278107	A8	E N		Based on OPI patent WO 200201306 4
US 7047229	B2	E N		Related to Provisional US 2000223695
US 2006018451 5	A1	E N		Related to Provisional US 2000223695

				Continuation of application	US 2000749639
				Continuation of patent	US 7007008
US 2006024212 8	A1	E	N	Related to Provisional	US 2000223695
				Division of application	US 2000749629
				Division of patent	US 7047229
US 7225180	B2	E	N	Related to Provisional	US 2000223695

### Alerting Abstract WO A2

**NOVELTY** - A search term is received and compared with a hierarchy of category identifiers. The search term is compared with term related to one or more categories to determine whether matches exist. A category identifier is displayed based on the matches that exist with the hierarchy and the terms related to categories.

**DESCRIPTION - INDEPENDENT CLAIMS** are also included for the following:

- A. Computer program for performing website category search;
- B. Different data stores searching method;
- C. Searchable contents storage method;
- D. Searchable content storage system;
- E. Computer program for searching different data stores;
- F. Computer program for storing searchable contents;
- G. Website search results display method;
- H. Computer program for displaying website searchable result;
- I. Website search method;
- J. Computer program for searching website;
- K. Memory store populating method;
- L. Computer program for populating memory store

**USE** - For performing category search to identify website in Internet.

**ADVANTAGE** - The most useful and relevant result matches with hierarchy and terms of category identifiers are displayed efficiently and hence desired website is identified reliably.

**DESCRIPTION OF DRAWINGS** - The figure shows the flowchart explaining the process for performing a electronic search performed by components of communication system.

**Title Terms /Index Terms/Additional Words:** CATEGORY; SEARCH; METHOD; DISPLAY; IDENTIFY; BASED; MATCH; TERM; HIERARCHY; RELATED

### Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date

G06F-017/30			Main		"Version 7"
G06F-0017/00	A	I	L	B	20060101
G06F-0017/30	A	I	F	B	20060101
G06F-0017/30	A	I	L	B	20060101
G06F-0017/30	A	I		R	20060101
G06F-0007/00	A	I	F	B	20060101
G06F-0017/00	A	I	F	B	20060101
G06F-0007/00	A	I	L	B	20060101
G06F-0017/00	C	I	L	B	20060101
G06F-0017/30	C	I	F	B	20060101
G06F-0017/30	C	I	L	B	20060101
G06F-0017/30	C	I		R	20060101
G06F-0007/00	C	I	L	B	20060101
G06F-0017/00	C	I		B	20060101
G06F-0017/30	C	I		B	20060101
G06F-0007/00	C	I		B	20060101

US Classification, Issued: 707003000, 707003000, 707003000, 707005000, 707003000, 707003000, 707003000 , 707004000, 707005000, 707100000, 707002000, 707003000, 707005000, 707104100

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-N03A2; T01-N03B2; T01-S03**

**Class Codes** Manual Codes (EPI/S-X): **T01-N03A2... ...T01-N03B2... ...T01-S03** Original Publication Data by Authority...**Claims:** What is claimed is:1. A method for performing a **search** to **identify** items and **categories** of items that relate to a **search** term, the method comprising:receiving at least one **search** term;comparing the **search** term with a list of recommended items to determine whether matches exist;accessing a list of **previously** received **search** terms stored in an electronic data store that were used to perform searches;comparing the **search** term with the list to determine whether matches exist between the **search** term and the list of **previously** received **search** terms;comparing the **search** term with a **hierarchy** of **category identifiers** and terms **related** to one or more **categories** to determine whether matches exist; anddisplaying results based on matches that are determined to exist, **wherein**:the matches between the **search** term and the list of **previously** received **search** terms are displayed as a list of **related search** terms that were entered for **previously** performed **searches**, andthe matches between the **search** term and the list of recommended items are displayed as a list of recommended web sites that are **identifiably** designated as recommended web sites... ... **What** is claimed is:1. A system for **storing searchable content**, the system comprising: a first electronic region that includes text displayed by different web pages from different web sites and that is populated by determining a number of **times** a web site is accessed by **members** of a web host and conditioning automatic scanning and **storage** of the text of the web site based upon whether the web site has been accessed a threshold number of **times** by the **members** of the web host; and a second electronic region that includes text displayed by different web pages from different web sites and that is populated by automatically scanning and **storing** the text of a web site provided by a listing service that was not accessed the threshold number of **times** by **members** of the web host... ... **What** is claimed is:1. A

method of **storing searchable and retrievable content** into more than one distinct electronic information **store**, the method comprising: **receiving searchable and retrievable content** to be **stored** within more than one distinct electronic information **store**; **detecting** a number of **accesses** of the **searchable and retrievable content**; **comparing** the number of **detected accesses** to a **threshold number**; if the **threshold number** is **met**, **scanning** the **searchable and retrievable content** in response to the **searchable and retrievable content** being **accessed** the **threshold number** of **times**; **classifying** the **received searchable and retrievable content** among a **first type** of **searchable and retrievable content** and a **second type** of **searchable and retrievable content**; and **storing** the **received searchable and retrievable content** based on the **classifying** among the **first type** and the **second type** in order for different types of **received searchable and retrievable content** to be **stored** among a collection of more than one distinct electronic information **stores**.>

64/5,K/106 (Item 106 from file: 350) Links

Derwent WPIX

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0013117719 *Drawing available*

WPI Acc no: 2003-199415/200319

Related WPI Acc No: 2004-013711; 2004-036893; 2004-131156; 2004-141772; 2004-171053; 2004-748746; 2005-166332; 2005-592926; 2006-045935; 2007-112988

XRPX Acc No: N2003-158622

**Domain-specific metasearch performance method in data mining system, involves supplying raw data search results to data mining module and displaying clusters of related documents on user interface**

Patent Assignee: AGILENT TECHNOLOGIES INC (AGIL-N); CHUNDI P (CHUN-I); HANDLEY S (HAND-I); KINCAID R (KINC-I); VAILAYA A (VAIL-I)

Inventor: CHUNDI P; HANDLEY S; KINCAID R; VAILAYA A

Patent Family ( 3 patents, 2 countries )

Patent Number	K i n d	Application Number	K i n d	Upda te	T y p e
US 20020169764	A 1 2002111 4	US 2001289927	P 2001050 9	20031 9	B
		US 200133823	A 2001121 9		
DE 10231161	A 1 2003112 0	DE 10231161	A 2002071 0	20040 1	E
US 6920448	B 2 2005071 9	US 200133823	A 2001121 9	20054 7	E

Priority Applications (no., kind, date): US 2001289927 P 20010509; US 200133823 A 20011219

Patent Details

Patent Number	Ki n d	L a n	Pgs a n	Draw	Filing Notes
US 20020169764	A1	E	21 N	8	Related to Provisional US 200128992 7

Alerting Abstract US A1

**NOVELTY** - Documents on a selected set of generic, web-based **search engines** and domain **relevant** search engines are **searched** in response to a **query** received from a **user**. Raw data **search** results **fetched** in the form of text documents, are supplied to a **data mining** module (20). The clusters of **related** documents formed according to an unsupervised clustering procedure, are displayed on an **user interface**.

**DESCRIPTION - INDEPENDENT CLAIMS** are included for the following:

1. Domain-specific metasearch performance system; and
2. Computer-readable medium **storing** domain-specific metasearch performance program.

**USE** - For performing domain-specific metasearch using meta search engines e.g. **Google** , **AltaVista** , **HotBot** and **PubMed** , in data mining system.

**ADVANTAGE** - The domain specific meta search is performed **efficiently** so that the user quickly identifies and accesses the most relevant information.

**DESCRIPTION OF DRAWINGS** - The figure shows the schematic view of the domain-specific metasearch performance system.

20 Data mining module

**Title Terms /Index Terms/Additional Words:** DOMAIN; SPECIFIC; PERFORMANCE; METHOD; DATA; MINE; SYSTEM; SUPPLY; RAW; SEARCH; RESULT; MODULE; DISPLAY; CLUSTER; RELATED; DOCUMENT; USER; INTERFACE

#### **Class Codes**

International Patent Classification

<b>IPC</b>	<b>Class Level</b>	<b>Scope</b>	<b>Position</b>	<b>Status</b>	<b>Version Date</b>
<b>G06F-0017/30</b>	A	I		R	20060101
<b>G06F-0017/30</b>	C	I		R	20060101

US Classification, Issued: 707003000, 703010000, 707003000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-N03A2; T01-S03**

**Domain-specific metasearch performance method in data mining system, involves supplying raw data search results to data mining module and displaying clusters of related documents on user interface**  
...Original Titles:Domain specific knowledge-based metasearch system and methods of using... ...Domain specific knowledge-based metasearch system and methods of using Alerting Abstract ...NOVELTY - Documents on a selected set of generic, web-based **search engines** and domain **relevant** search engines are **searched** in response to a **query** received from a **user**. Raw data **search** results **fetched** in the form of text documents, are supplied to a **data mining** module (20). The clusters of **related** documents formed according to an unsupervised clustering procedure, are displayed on an **user interface**. ... Domain-specific metasearch performance system; and Computer-readable medium **storing** domain-specific metasearch performance program... ... ADVANTAGE - The domain specific meta search is performed **efficiently** so that the user quickly identifies and accesses the most relevant information... **Title Terms .../Index Terms/Additional Words: RELATED; Class Codes International Patent Classification IPC Class Level Scope Position Status**

Version Date **G06F-0017/30... G06F-0017/30...** Manual Codes (EPI/S-X): **T01-N03A2... ...T01-S03**  
Original Publication Data by Authority...**Original Abstracts:**erzeugen, ist vorgesehen. Ferner ist ein Data-Mining-Modul zum Organisieren von Rohdaten vorgesehen, die durch ein nicht-überwachtes Clustern, ein Ordnen in einer einfachen **Relevanzrangfolge** und eine Kategorisierung, von denen alle unabhängig voneinander erfolgen, erhalten werden. Das System ist in der Lage, frühere Suchdaten zur Verwendung bei einer Anfrageverfeinerung oder späterem Suchen auf der Basis der gespeicherten **Daten** zu speichern. Ein Suchergebnisse-Sammelbrowser kann zum Analysieren vorliegender Browsing-Muster des Benutzers vorgesehen sein, um Gewichtungsfaktoren zu entwickeln, die beim Ordnen der Ergebnisse zukünftiger... ... A system and method for performing domain-specific **knowledge based** metasearches. A metasearch engine is provided for accessing a searching text-based documents using generic search engines while simultaneously being able to access publication based **databases** and sequence **databases** as well as in-house proprietary **databases** and any **database** capable of being interfaced with a web interface so as to produce search results in text format. A data mining module is also provided for organizing raw data obtained by unsupervised clustering, simple **relevance ranking**, and **categorization**, all of which are done independently of one another. The system is capable of **storing previous search data** for use in **query** refinement or subsequent **searches** based upon the **stored** data. A search results collection browser may be provided for analyzing current browsing patterns of the **user** for developing **weighting** factors to be used in ordering the results of future **searches**. ... ... A system and method for performing domain-specific **knowledge based** metasearches. A metasearch engine is provided for accessing a searching text-based documents using generic search engines while simultaneously being able to access publication based **databases** and sequence **databases** as well as in-house proprietary **databases** and any **database** capable of being interfaced with a web interface so as to produce search results in text format. A data mining module is also provided for organizing raw data obtained by unsupervised clustering, simple **relevance ranking**, and **categorization**, all of which are done independently of one another. The system is capable of **storing previous search data** for use in **query** refinement or subsequent **searches** based upon the **stored** data. A search results collection browser may be provided for analyzing current browsing patterns of the **user** for developing **weighting** factors to be used in ordering the results of future **searches**. >...**Claims:**von Suchergebnissen aus derselben, wobei das Verfahren folgende Schritte aufweist:  
Bereitstellen einer Metasuchmaschine (10), die in der Lage ist, auf generische, webbasierte Suchmaschinen und domain-relevante Suchmaschinen (12, 14, 16, 18, 19) zuzugreifen; Empfangen einer Anfrage, die durch einen Benutzer in die Metasuchmaschine (10) eingegeben wird, und Suchen nach Dokumenten in einem ausgewählten Satz der generischen webbasierten Suchmaschinen und domain-relevanten Suchmaschinen (12, 14; 16, 18, 19), die für die Anfrage relevant sind;  
Abrufen von Rohdaten-Suchergebnissen in Form von Textdokumenten aus jedem Element des ausgewählten Satzes;  
Anzeigen der Rohdaten auf einer Benutzerschnittstelle (30);  
Liefern der Rohdaten... ... a domain-specific metasearch and obtaining search results therefrom, said method comprising the steps of:providing a metasearch engine capable of accessing generic, web-based search engines and domain-relevant search engines;receiving a query inputted by a user to the metasearch engine and searching for documents on a selected set of said generic, web-based search engines and domain-relevant search engines which are relevant to the query;fetching raw data search results in the form of text documents from each member of the selected set;displaying the raw data on a user interface;supplying the raw data to a data mining module, wherein the data mining module forms clusters of related documents according to an unsupervised clustering procedure; anddisplaying the clusters of related documents on the user interface... ... 32. A computer system for searching both general and domain-specific information resources simultaneously pursuant to a user query and for

**obtaining organized search results therefrom, the system comprising:a metasearch engine capable of accessing a plurality of sites including generic, web-based search engines and domain-relevant search engines, for receiving documents from said plurality of sites in response to the user query;means for selecting particular search engines from a plurality of generic, web-based search engines and domain-relevant search engines that are presented to a user;means for displaying the received documents to the user;means for assembling the received documents from the plurality of sites searched by the selected particular search engines into a single list after eliminating documents not reachable via the web;means for assigning relevance ranks to the received documents in the single list and for organizing the documents in the single list according to said relevance ranks;means for clustering the received documents into clusters according to an unsupervised clustering procedure;and means for displaying said single list and said clusters to... Basic Derwent Week: 200319**

64/5, K/73 (Item 73 from file: 350) Links

Derwent WPIX

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0013679718 *Drawing available*

WPI Acc no: 2003-776333/200373

Related WPI Acc No: 2001-009271

XRPX Acc No: N2003-621965

**Proxy server stores client requested documents requested from server, and associates data to documents, and provides archived documents to client who sends a request for archived document along with archival data**

Patent Assignee: AT & T CORP (AMTT)

Inventor: CHEN M; CHEN Y R; RAO C H

Patent Family (1 patents, 1 countries)

Patent Number	K i n d	Application Number	Ki n d	Date	Upda t e	T y p e
US 6625624	B 1	20030923 US 1999118367	P	19990203	200373	B
		US 1999118651	P	19990204		
		US 1999126705	P	19990329		
		US 1999133345	P	19990510		
		US 1999475556	A	19991230		

Priority Applications (no., kind, date): US 1999133345 P 19990510; US 1999126705 P 19990329; US 1999118651 P 19990204; US 1999118367 P 19990203; US 1999475556 A 19991230

Patent Details

Patent Number	K i n d	L Pgs a n	Draw	Filing Notes	
US 6625624	B 1	E23 N	18	Related to Provisional 1	US 1999118367
				Related to Provisional 1	US 1999118651
				Related to Provisional 1	US 1999126705
				Related to Provisional 1	US 1999133345

**Alerting Abstract US B1**

NOVELTY - The proxy server has a processor that retrieves the document requested by a client from server, stores the documents and associates retrieval date information, and sends the document to client. The processor analyzes the request for archive directive, containing archival date, received from client, searches document in the storage device and sends one or more archived documents matching with the date.

DESCRIPTION - An INDEPENDENT CLAIM is also included for computer readable recorded medium storing the instructions for performing the functions of proxy server.

USE - Proxy server connected between web browser and server for archiving web pages.

ADVANTAGE - The user can retrieve the old data, even if the data has evolved or disappeared from the original server.

DESCRIPTION OF DRAWINGS - The figure shows an illustration of multiple archiving repositories.

**Title Terms /Index Terms/Additional Words:** SERVE; STORAGE; CLIENT; REQUEST; DOCUMENT; ASSOCIATE; DATA; SEND; ARCHIVE

**Class Codes**

## International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30			Main		"Version 7"

US Classification, Issued: 707204000, 707010000, 707104100, 707203000, 709245000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-N02A3C; T01-N02B1A; T01-S03

Original Publication Data by Authority... **Original Abstracts:** is extended to include archive directives that are intercepted and performed by a proxy server. The proxy interprets the archive directive and executes the specified **archival** command: e.g., adding the information to a storage repository, **searching** and retrieving the **information** from the storage repository, scheduling automatic **archiving** of specified server **information**, transparent **archiving** of information that is accessed by the **client** or of the **client**'s cache. The information can be easily indexed by a timestamp. Multiple proxy servers can collaborate permitting information to be archived in a distributed fashion... **Claims:What is claimed is:** 1. A proxy server interposed between at least one client browser and a server, the proxy server comprising: a first interface for establishing a document serving protocol channel to the server; a second interface for establishing a second document serving protocol channel to the **client** browser; a storage device for **archiving** documents; a processor adapted to(i) receive a first **requests** from the **client**

browser for one or more documents on the server, (ii) retrieve the documents from the server, (iii) store the documents on the storage device, (iv) associate the stored documents with date information indicating when the documents were retrieved from the server, (v) sending the documents to the client browser, (vi) receive at a later time a second request from the client browser wherein the request contains an archive directive, (vii) parse the second requests for an archive directive, and, (viii) where the requests contain an archive directive requesting an archived copy of the one or more documents and specifying an archival date or a range of archival dates, (a) access the storage devices, (b) search for date information associated with documents stored on the storage device that match the archival date specified in the request, (c) if there is matching date information, retrieving the documents from the storage device associated with the date information and sending the retrieved documents to the client browser, and (d) if there is more than one matching date information, sending a list of archived documents with associated matching date information to the client browser.

64/5,K/84 (Item 84 from file: 350) [Links](#)

Derwent WPIX

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0013465773 *Drawing available*

WPI Acc no: 2003-557320/200352

Related WPI Acc No: 2006-088105; 2006-088106

XRPX Acc No: N2003-442950

**Categorized information presenting method, involves displaying several categorized information on user interface and independently retrieving data associated with selected category**

Patent Assignee: MICROSOFT CORP (MICT)

Inventor: PANKOVCI N I

Patent Family ( 2 patents, 1 countries )

Patent Number	K i n d	Date	Application Number	K i n d	Date	Upda te	T y p e
US 20030085924	A 1	2003050 8	US 2001839438	A	2001042 0	20035 2	B
US 7007244	B 2	2006022 8	US 2001839438	A	2001042 0	20061 6	E

Priority Applications (no., kind, date): US 2001839438 A 20010420

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20030085924	A1	EN	18	12	

#### Alerting Abstract US A1

**NOVELTY** - The method involves displaying several **categories** for the information receiving one or more **categories** of information selected by a **user**. A data associated with the chosen **category** is independently retrieved. The displayed **categories** remain responsive to the **user** interaction while the data is being retrieved.

**DESCRIPTION** - An INDEPENDENT CLAIM is also included for a system to present **categorized** information on a **user** interface.

**USE** - Used for displaying **categorized** information on a computer-enabled **user** interface.

**ADVANTAGE** - The **categorized** information is displayed independently from the data associated with the **categories** to find the files in the documents, **when** the network link has been lost. The **user** retrieves a node and data corresponding to nodes automatically without any selection or **request**. Frequency chosen **categories** can be **identified**, and **request** for the retrieval of data corresponding to such **categories** can be

automatically issued.

DESCRIPTION OF DRAWINGS - The drawing shows possible features of **categorized user interface**.

**Title Terms /Index Terms/Additional Words:** INFORMATION; PRESENT; METHOD; DISPLAY; USER; INTERFACE; INDEPENDENT; RETRIEVAL; DATA; ASSOCIATE; SELECT; **CATEGORY**

### Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-003/14</b>			Main		"Version 7"
<b>G06F-0017/00</b>	A	I	L	B	20060101
<b>G06F-0003/00</b>	A	I	F	B	20060101
<b>G06F-0009/00</b>	A	I	L	B	20060101

US Classification, Issued: 345764000, 345853000, 715853000, 715854000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-J12A; T01-S03**

**Categorized information presenting method, involves displaying several categorized information on user interface and independently retrieving data associated with selected category Original**

**Titles:**Method and system for displaying categorized information on a user interface... ...Method and system for displaying categorized information on a user interface **Alerting Abstract** ...NOVELTY - The method involves displaying several categories for the information receiving one or more categories of information selected by a user. A data associated with the chosen category is independently retrieved. The displayed categories remain responsive to the user interaction while the data is being retrieved.

**DESCRIPTION** - An INDEPENDENT CLAIM is also included for a system to present categorized information on a user interface... ...**USE** - Used for displaying categorized information on a computer-enabled user interface... ...**ADVANTAGE** - The categorized information is displayed independently from the data associated with the categories to find the files in the documents, when the network link has been lost. The user retrieves a node and data corresponding to nodes automatically without any selection or request. Frequency chosen categories can be identified, and request for the retrieval of data corresponding to such categories can be automatically issued... ...**DESCRIPTION OF DRAWINGS** - The drawing shows possible features of categorized user interface. **Title Terms .../Index Terms/Additional Words:** **CATEGORY Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G06F-003/14** Main **G06F-0017/00... ...G06F-0003/00... ...G06F-0009/00** Manual

Codes (EPI/S-X): **T01-J12A... ...T01-S03** Original Publication Data by Authority **Original Abstracts:** A computer implemented method and system for displaying categorized information on a user interface is provided, in which the user may choose one or more categories of information. In response, data associated with the chosen category is retrieved. The display of the categories and the retrieval of the data is performed independently, so that the displayed categories remain responsive to user interaction while the data is being retrieved. In one implementation, the display of the categories and information on the user interface is handled by the main thread and the retrieval of the data associated with the chosen category is

performed by a worker thread executing asynchronously with respect to the main thread... ... A computer implemented method and system for displaying **categorized** information on a **user** interface is provided, in which the **user** may choose one or more **categories** of information. In response, data associated with the chosen **category** is retrieved. The display of the **categories** and the retrieval of the data is performed independently, so that the displayed **categories** remain responsive to **user** interaction while the data is being retrieved. In one implementation, the display of the **categories** and information on the **user** interface is handled by the main thread and the retrieval of the data associated with the chosen **category** is performed by a worker thread executing asynchronously with respect to the main thread. **Claims: What** is claimed is:1. A method for presenting **categorized** information on a computer-enabled **user** interface, the **method** comprising: displaying one or more **categories** for the information; receiving a **user** selection of a **category** of the one or more **categories**; and independently retrieving data associated with the selected **category** so that the displayed **categories** remain responsive to **user** interaction while the data is being retrieved. **What** is claimed is:1. A method for presenting **hierarchical categorized directory** information via a **plurality** of arranged visual elements on a computer-enabled **user** interface, wherein **visual elements represent directory** system entities and the arrangement of elements represents the interrelationships of the corresponding **directory** system entities, the **method** comprising: displaying the **plurality** of arranged visual elements on the **user** interface via a **first** thread; receiving a **user** selection of a **plurality** of the elements; receiving a **user** request to boost the retrieval priority of a particular one of the selected **plurality** of elements; in response to receiving the **user request**, boosting the priority of the particular **selected** element; and retrieving data associated with the **plurality** of the elements via a **second** thread giving **priority to data** associated with the particular **selected** element, so that the **plurality** of arranged visual elements remain responsive to **user** interaction while data associated with the **plurality of the elements** is being retrieved. **Basic Derwent Week:** 200352

64/5,K/81 (Item 81 from file: 350) [Links](#)

Derwent WPIX

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0013576143 *Drawing available*

WPI Acc no: 2003-670664/200363

Related WPI Acc No: 2005-036888

XRPX Acc No: N2003-535495

**Unique object record identification using rule analyzer system for healthcare organization, involves determining efficiency of exact match and probabilistic search rules, to accordingly adjust rules in descending order**

Patent Assignee: ECLIPSY'S CORP (ECLI-N)

Inventor: TIFFT W W

Patent Family ( 2 patents, 1 countries )

Patent Number	K	i n d	Application Number	K	i n d	Upd a t e	T	y p e
US 2003012065 2	A	1 200306 26	US 1999160717	P	19991019	2003 6 3	B	
			US 2000692433	A	20001019			
			US 2003349304	A	20030121			
US 7035849	B	2 200604 25	US 1999160717	P	19991019	2006 2 8	E	
			US 2000692433	A	20001019			
			US 2003349304	A	20030121			

Priority Applications (no., kind, date): US 2000692433 A 20001019; US 1999160717 P 19991019; US 2003349304 A 20030121

Patent Details

Patent Number	K	i n d	L	Pgs a n	Draw	Filing Notes

US 2003012065 2	A 1	E 19	N 9	Related to Provisional	US 1999160717
				Division of application	US 2000692433
US 7035849	B 2	E N		Related to Provisional	US 1999160717
				Division of application	US 2000692433
				Division of patent	US 6829604

### Alerting Abstract US A1

**NOVELTY** - The **user** defined probabilistic **search** rules are executed to **search** a unique object record in a **database**, if exact match **search** rules do not retrieve identical object records. The **user** selected object record is updated with new **attributes** in **real-time**. The efficiency of exact match and probabilistic **search** rules are determined, to accordingly adjust the rules in descending order.

**DESCRIPTION** - INDEPENDENT CLAIMS are also included for the following:

1. unique object record **identifying** system;
2. **rules** analysis method; and
3. **rules** analyzer system.

**USE** - For **identifying** an object record, using a **rules** analyzer **system** (claimed) in healthcare organization.

**ADVANTAGE** - Efficiently evaluates the efficiency and reordering of exact match and probabilistic search rules, thus maintaining a set of rules to locate the desired record in an efficient manner.

**DESCRIPTION OF DRAWINGS** - The figure shows the display screen of a rule generator.

**Title Terms /Index Terms/Additional Words:** UNIQUE; OBJECT; RECORD; **IDENTIFY**; RULE; ANALYSE; SYSTEM; ORGANISE; DETERMINE; EFFICIENCY; EXACT; MATCH; PROBABILITY; SEARCH; ACCORD; ADJUST; DESCEND; ORDER

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-007/00			Main		"Version 7"
G06F-0017/30	A	I	F	B	20060101

US Classification, Issued: 707006000, 707005000, 707002000, 707004000, 707006000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-J05B3; T01-J05B4C; T01-J06A1; T01-N01A2**

**Unique object record identification using rule analyzer system for healthcare organization, involves determining efficiency of exact match and probabilistic search rules, to accordingly adjust rules in descending order**

**Original Titles:** Rules analyzer system and method for evaluating and ranking exact and probabilistic search rules in an enterprise database ... ... Rules analyzer system and method for evaluating and ranking exact and probabilistic search rules in an enterprise database

**Alerting Abstract** ... **NOVELTY** - The user defined probabilistic search rules are executed to search a unique object record in a database, if exact match search rules do not retrieve identical object records. The user selected object record is updated with new attributes in real-time. The efficiency of exact match and probabilistic search rules are determined, to accordingly adjust the rules in descending order. ... unique object record identifying system; rules analysis method; and rules analyzer system... ... **USE** - For identifying an object record, using a rules analyzer system (claimed) in healthcare organization... **Title Terms** .../Index Terms/Additional Words: **IDENTIFY**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G06F-007/00** Main **G06F-0017/30**... Manual Codes (EPI/S-X): **T01-J05B3**... ...**T01-J05B4C**...  
...**T01-J06A1**... ...**T01-N01A2** Original Publication Data by Authority

**Original Abstracts:** A rules analyzer system and method is provided for an enterprise system to evaluate and rank exact and probabilistic search rules for searching a computer database of records according to the efficiency of each search rule. The rules analyzer collects statistics on the performance of each search rule and assigns a priority value for each search rule according to the collected statistics. The priority values are based on the efficiency or precision of each search rule. Thereafter, the rules analyzer ranks the search rules according to the assigned priority. ... ... A rules analyzer system and method is provided for an enterprise system to evaluate and rank exact and probabilistic search rules for searching a computer database of records according to the efficiency of each search rule. The rules analyzer collects statistics on the performance of each search rule and assigns a priority value for each search rule according to the collected statistics. The priority values are based on the efficiency or precision of each search rule. Thereafter, the rules analyzer ranks the search rules according to the assigned priority.

**>Claims:** 1. A method of uniquely identifying an object record in a database of object records according to a plurality of ranked exact and probabilistic search rules, comprising the steps of: obtaining application identification information and attributes of a target object; executing one or more exact-match search rules to search the database of object records for the target object; executing one or more user defined probabilistic search rules to search the database of object records for the target object if the exact-match search rules retrieve no object record identical to the obtained application identification information and attributes, wherein a list of probable matches to the target object are retrieved and ranked by degree of match probability; receiving user input of selection of one retrieved object record determined to be the target object record; updating the database of object records in real time for the selected target object with new attributes and information associated with the target object; determining the efficiency of the exact-match and probabilistic search rules according to a plurality of collected statistics for each search rule; and adjusting a sequence of execution of the exact-match and probabilistic search.... ...

The invention claimed is: 1. A method of uniquely identifying an object record in a computer database of object records according to a plurality of ranked exact and probabilistic search rules, comprising the steps of: obtaining application identification information and attributes of a target object; executing one or more exact-match search rules to search the database of object records for the target object; executing one or more user defined probabilistic search rules to search the database of object records for the target object if the exact-match search rules retrieve no object record identical to the obtained application identification information and attributes, wherein a list of probable matches to the target object are retrieved and ranked by degree of match probability; receiving user input of selection of one retrieved object record determined to be the target object record; updating the database of object records in real time for the selected target object with new attributes and

information associated with the target object; determining an efficiency measure for each of the exact-match and probabilistic search rules according to a plurality of collected statistics for each search rule; where the efficiency measure measures how efficient a corresponding search rule is in finding a match with the target record; and adjusting a sequence of execution of the exact-match and probabilistic search rules in descending order by efficiency measure, wherein one of the collected statistics corresponds to a number of instances that one of the probabilistic search rules retrieves one or more possible matches to the target object record, or to a number of instances that one of the probabilistic search rules retrieves a record previously retrieved by a previously executed search rule, or to a number of instances that one of the probabilistic search rules retrieves a record that was not retrieved by a previously executed search rule, or to a number of instances that one of the probabilistic search rules retrieves a plurality of records subsequently determined to correspond to the target object record, or to a number of retrieved records that are determined not to be the target object record.>Basic Derwent Week: 200363

64/5,K/115 (Item 115 from file: 350) [Links](#)

Derwent WPIX

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0012964899 *Drawing available*

WPI Acc no: 2003-042104/200304

XRPX Acc No: N2003-033018

**Text-based product evaluation information provision method involves comparing data satisfying search item and data stored in customer databases with previously read data, to obtain evaluation information**

Patent Assignee: SONY COMPUTER ENTERTAINMENT AMERICA (SONY); CHATANI M (CHAT-I); SONY COMPUTER ENTERTAINMENT UK LTD (SONY)

Inventor: CHATANI K; CHATANI M; MASAYUKI S

Patent Family (9 patents, 31 countries)

Patent Number	K	i n d	Application Number	K	i n d	Upda te	T y p e
EP 1255213	A	2 2002110 6	EP 20029457	A	2002042 5	20030 4	B
JP 2003036270	A	2003020 7	JP 2002126022	A	2002042 6	20032 0	E
KR 2002084418	A	2002110 7	KR 200223750	A	2002043 0	20032 0	E
CN 1384452	A	2002121 1	CN 2002118827	A	2002042 9	20032 4	E
US 20040073625	A	1 2004041 5	US 2001846100	A	2001043 0	20042 6	E
IN 200200377	I3	2006050 5	IN 2002MU377	A	2002042 4	20064 4	E
US 7149804	B	2 2006121 2	US 2001846100	A	2001043 0	20070 1	E
CN 1270260	C	2006081 6	CN 2002118827	A	2002042 9	20070 3	E
KR 532575	B	2005120 2	KR 200223750	A	2002043 0	20070 5	E

Priority Applications (no., kind, date): US 2001846100 A 20010430

Patent Details

Patent Number	Kind	L	Pgs	Draw	Filing Notes

			<b>n</b>			
EP 1255213	A2	E	17 N	7		
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2003036270	A	J	13 A			
IN 200200377	I3	E	N			
KR 532575	B	K	O		Previously issued paten t	KR 20020844 18

#### **Alerting Abstract EP A2**

**NOVELTY** - A **content** database (160) and a **customer database** (170) are searched corresponding to a **search** item provided by a **customer**. The data satisfying the **search** item is compared with data concerning text **content** previously read by the **customer** to obtain evaluation information. The evaluation information is displayed in a customer computer (140).

**DESCRIPTION** - INDEPENDENT CLAIMS are included for the following:

1. Evaluation information providing system; and
2. Article of manufacture comprising computer readable storage medium storing evaluation information provision program.

**USE** - For providing text-based products such as books, magazines, computer generated text, illustrations, etc., to customer through computer network.

**ADVANTAGE** - Since the **content** and **customer databases** are **searched** corresponding to **search** item, the **customer** does not have to register the books read **previously**, thereby **user required contents** and reviews are obtained efficiently in less **time**.

**DESCRIPTION OF DRAWINGS** - The figure shows the block diagram of a computer network environment.

140 Customer computer

160 **Content database**

170 **Customer database**

**Title Terms /Index Terms/Additional Words:** TEXT; BASED; PRODUCT; EVALUATE; INFORMATION; PROVISION; METHOD; COMPARE; DATA; SATISFY; SEARCH; ITEM; STORAGE; CUSTOMER; READ; OBTAIN

**Class Codes**

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-017/30; G06F-017/60</b>			Main		"Version 7"
<b>G06F-0015/16</b>	A	I	F	B	20060101
<b>G06F-0015/173</b>	A	I	L	B	20060101
<b>G06F-0017/30</b>	A	I	F	R	20060101
<b>G06F-0017/30</b>	A	I	F		20060101
<b>G06F-0007/00</b>	A	I	L	B	20060101
G06Q-0030/00	A	I		R	20060101
<b>G06F-0015/16</b>	C	I	L	B	20060101
<b>G06F-0017/30</b>	C	I	F	R	20060101
G06Q-0030/00	C	I		R	20060101

US Classification, Issued: 709217000, 709229000, 709217000, 707002000, 707010000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-J05A2; T01-J05B3; T01-S03**

**Text-based product evaluation information provision method involves comparing data satisfying search item and data stored in customer databases with previously read data, to obtain evaluation information Alerting Abstract ...NOVELTY - A content database (160) and a customer database (170) are searched corresponding to a search item provided by a customer. The data satisfying the search item is compared with data concerning text content previously read by the customer to obtain evaluation information. The evaluation information is displayed in a customer computer (140). ... Evaluation information providing system; and Article of manufacture comprising computer readable storage medium storing evaluation information provision program... ... ADVANTAGE - Since the content and customer databases are searched corresponding to search item, the customer does not have to register the books read previously, thereby user required contents and reviews are obtained efficiently in less time.... ... 160 Content database ... ... 170 Customer database Title Terms .../Index Terms/Additional Words:**

**STORAGE; Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date G06F-017/30... ...G06F-017/60 Main G06F-0015/16... ...G06F-0015/173... ...G06F-0017/30... ...G06F-0017/30... ...G06F-0007/00 G06F-0015/16... ...G06F-0017/30 Manual Codes (EPI/S-X):**

**T01-J05A2... ...T01-J05B3... ...T01-S03 Original Publication Data by AuthorityOriginal Abstracts: A system and computer-based method for providing, in a network (130) environment, customized text content ratings and/or review (or recommendations) based on certain information, such as information concerning the text content that a customer has read. The system includes a first (or book) database, a customer database (170), a database server (110) for searching, retrieving and comparing data from the databases, a web server (120) to connect the database server (110) to the network (130), and a customer connected to the database server (110) over a network (130). In one embodiment, the customer performs a book registration function followed by a book rating function. In the registration function, information regarding the books and other periodicals that have been read by the customer is acquired, compiled by the database server (110), and stored in the customer database (170)... ... A system for providing customized text content ratings and recommendations based on information concerning the text content that a customer has**

previously read. The system includes a book **database**, a **customer database**, a **database server**, and a **web server**. The customer performs a book registration function followed by a book **rating** function. In the registration function, information regarding texts that the **customer** has previously read is compiled and stored in the customer database. In the rating function, the **customer** establishes text product that he is considering buying. The **server** **searches** keyword data of the **customer database** based on keywords associated with the chosen product. The **database server** determines one or more books or other text product having the most matching keywords and **ranks** the products according to a scale, and presents a **rating** information for the chosen text product keyed to the closest text the customer has read... ... A system for providing customized text **content** ratings and recommendations based on information concerning the text content that a **customer** has previously read. The system includes a book **database**, a **customer database**, a **database server**, and a **web server**. The customer performs a book registration function followed by a book **rating** function. In the registration function, information regarding texts that the **customer** has previously read is compiled and stored in the customer database. In the rating function, the **customer** establishes text product that he is considering buying. The **server** **searches** keyword data of the **customer database** based on keywords associated with the chosen product. The **database server** determines one or more books or other text product having the most matching keywords and **ranks** the products according to a scale, and presents a **rating** information for the chosen text product keyed to the closest text the customer has read. **Claims:** A method **characterized in that:** said method is for providing evaluation information for text **content** to a **customer** by a system comprising a **content database** (160) configured to **store** data concerning text **content** and a **customer database** (170) configured to **store** data concerning text **content** read by the **customer**, and the method comprising the steps of: **storing** data exclusively concerning text content actually read by the customer in the customer database (170); receiving a search request comprising a search item for identifying... ... database (160) and the customer database (170) to obtain resulting data satisfying the search item, and comparing the resulting data with data concerning text content previously read by the **customer** to obtain evaluation information corresponding to the **search request**; and transmitting the obtained evaluation information to the **customer computer** (140) for displaying the evaluation information in the customer computer (140)... ... What is claimed is: 1. A method for providing evaluation information to a customer using a system comprising a first **database** configured to store data concerning text content and a **customer database** configured to store data concerning text content read by the customer, the method comprising the steps of: storing data exclusively concerning text content read by the **customer** in the customer database; receiving a **search request** comprising a **search item** from the **customer**; comparing data concerning the **search item** with data concerning text content previously read by the **customer** by accessing the first **database** and the **customer database** to obtain **rating data** responsive to the **search request**; and transmitting the obtained **rating data** to the **customer** for display at a customer computer... ... What is claimed is: 1. A method for providing evaluation information to a customer using a system comprising a first **database** configured to store data concerning text content and a **customer database** configured to store data concerning text content read by a customer, the method comprising the steps of: storing data exclusively concerning text content read by the customer in the customer database, receiving a search request comprising a **search item** from the **customer**, the **search request** being initiated by the **customer** to **search** for the **search item**; comparing data concerning the **search item** with the stored data associated with text content previously read by the **customer**, the comparing being facilitated by accessing the first **database** and the **customer database** to obtain **rating data** that is generated based on input from the **customer** regarding text content read by the **customer** or generated based on information from purchase records or transactions **related** to the text **content** read by the **customer**, and the comparing of data being responsive to receipt of the **search request**; and transmitting the obtained **rating data** for results from the **search** to the **customer** for display at a **customer computer**; whereby the **rating data** is partly

augmented with transaction data associated with either the purchase records or transactions concerning the  
**text content** previously read by **the customer....Basic Derwent Week: EP 20029457**

64/5,K/125 (Item 125 from file: 350) [Links](#)

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0012819096 *Drawing available*

WPI Acc no: 2002-676680/200273

XRPX Acc No: N2002-534936

**Tracking user Internet access patterns by checking client computer memory area for existence of cached tracer files**

Patent Assignee: BREBNER G (BREB-I); HEWLETT-PACKARD CO (HEWP)

Inventor: BREBNER G

Patent Family ( 2 patents, 27 countries )

Patent Number	K i n d	Application Number	K i n d	Upda te	T y p e
EP 1244016	A 1 2002092 5	EP 2001410029	A 2001032 3	20027 3	B
US 20020184364	A 1 2002120 5	US 2002103124	A 2002032 2	20030 1	E

Priority Applications (no., kind, date): EP 2001410029 A 20010323

Patent Details					
Patent Number	Kind	L	Pgs a n	Draw	Filing Notes
EP 1244016	A1	E	10 N	4	
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				

#### Alerting Abstract EP A1

**NOVELTY** - The method of tracking user access patterns consists in the user transmitting a resource request to a web server that checks a first memory area on the client computer for the existence of cached tracer files associated with the request, and compiling information about the resource request in response to the presence or absence of the tracer files due to previous resource requests made by the user. request.

**DESCRIPTION** - The tracer files correspond to file objects which are selectively cached on the client computer and are configured to have a predetermined latency or identification. The file objects correspond to image files which

are located and configured to be automatically cached when the user makes a corresponding resource INDEPENDENT CLAIMS are included for:

1. A method of collecting statistical data to derive **user** browsing patterns
2. A website **hierarchy**
3. A computer network
4. A method of optimizing network resources and functionality

USE - Method is for tracking user Internet browsing activity.

ADVANTAGE - Method enables products to be tailored to users.

DESCRIPTION OF DRAWINGS - The figure shows a caching process based on latency of images.

**Title Terms** /Index Terms/Additional Words: TRACK; USER; ACCESS; PATTERN; CHECK; CLIENT; COMPUTER; MEMORY; AREA; EXIST; TRACER; FILE

#### Class Codes

##### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-011/34;</b> <b>G06F-015/173</b>			Main		"Version 7"
<b>G06F-017/30;</b> <b>G06F-017/60</b>			Secondary		"Version 7"

US Classification, Issued: 709224000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-H03A; T01-N02A3B; T01-N02B2A**

**Alerting Abstract** ...NOVELTY - The method of tracking **user** access patterns consists in the **user** transmitting a resource **request** to a web **server** that checks a first memory area on the client computer for the existence of cached tracer files associated with the request, and compiling information about the resource request in response to the presence or absence of the tracer files due to **previous** resource **requests** made by the **user**. **request**. DESCRIPTION - The tracer files correspond to file objects which are selectively cached on the client computer and are configured to have a predetermined latency or **identification**. The file objects correspond to image files which are located and configured to be automatically cached when the **user** makes a corresponding resource... ... A method of collecting statistical data to derive **user** browsing patterns A website **hierarchy** A computer network A method of optimizing network resources and functionality...

Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date

**G06F-011/34... ...G06F-015/173** Main **G06F-017/30... ...G06F-017/60** Manual Codes (EPI/S-X):

**T01-H03A... ...T01-N02A3B... ...T01-N02B2A** Original Publication Data by Authority...Original

**Abstracts**: for accumulating information about the resource access habits of a user. A preferred embodiment of the method uses tracer files or objects located on webpages. When a user requests the webpage resource, the image files are cached by the users browser. The images are arranged within the website hierarchy with

specified latencies (expiry periods) and locations. Thus, in one embodiment, by tracking the GET **requests**, the **contents of the users cache** can be analyzed for the existence of the cached image files which betray the **users movements** through the **website hierarchy**. This data can be statistically analyzed to determine the **browsing habits of the user**. This information can be used to modify the **content** which is offered to the **user** on subsequent visits to the website resource. The information can also be used to provide data relating to the performance of the network as well as an indication of the access **rates** of various network **resources**. This data can be used to optimize the performance of the network... ... invention relates to methods and apparatus for accumulating information about the resource access habits of a user. A preferred embodiment of the method uses tracer **files** or objects located on webpages. When a user requests the webpage resource, the image files are cached by the users browser. The images are arranged within the website hierarchy with specified latencies (expiry periods) and locations. Thus, in one embodiment, by tracking the GET **requests**, the **contents of the users cache** can be analyzed for the existence of the cached image files which betray the **users movements** through the **website hierarchy**. This data can be statistically analyzed to determine the **browsing habits of the user**. This information can be used to modify the **content** which is offered to the **user** on subsequent visits to the website resource. The **information** can also be used to provide data relating to the performance of the network as well as an indication of the access **rates** of various network resources. This data can be used to optimize the performance of the network. **Claims:** A method of tracking a users access patterns in respect of computer resources accessed by the user, the **method** including the steps of: the **user** transmitting a resource **request** to a first **computer**; the first computer checking a first memory area for the existence of one or more cached first tracer files associated with the resource request; in response to the presence or absence of one or more of the first tracer files, compiling information about the resource **request**, **wherein** accumulated information relating to the existence or non-existence of the first tracer files provides information about the users access patterns... ... 1. A method of tracking a users access patterns in respect of computer resources accessed by the user, the method including the **steps** of: the **user** transmitting a resource **request** to a first **computer**; the first computer checking a first memory area for the existence of one or more cached first tracer files associated with the resource request; in response to the presence or absence of one or more of the first tracer files, compiling information about the resource **request**, **wherein** accumulated information relating to the existence or non-existence of the first tracer files provides information about the **users access patterns**. ... ...

64/5,K/178 (Item 178 from file: 350) [Links](#)

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0010839146 *Drawing available*

WPI Acc no: 2001-457148/200149

XRPX Acc No: N2001-338836

**Displaying records responsive to database query for searching databases, sorting and delivering records to users by displaying selected elements of at least one of responsive records**

Patent Assignee: ROSENTHAL P J (ROSE-I); WALTERS E J (WALT-I); FASTCASE.COM INC (FAST-N)

Inventor: ROSENTHAL P J; WALTERS E J

Patent Family ( 4 patents, 92 countries )

Patent Number	K	i n Date d	Application Number	K	i n Date d	Upda t e	T y p e
WO 200103527 4	A	1 200105 17	WO 2000US30786	A	2000110 9	2001 4 9	B
AU 200115914	A	200106 06	AU 200115914	A	2000110 9	2001 5 2	E
US 7216115	B	1 200705 08	US 1999164549	P	1999111 0	2007 3 1	E
			US 2000707910	A	2000110 8		
US 2007018585 0	A	1 200708 09	US 1999164549	P	1999111 0	2007 5 4	E
			US 2000707910	A	2000110 8		
			US 2007736236	A	2007041 7		

Priority Applications (no., kind, date): US 1999164549 P 19991110; US 2000707910 A 20001108; US 2000707911 A 20001108; US 2007736236 A 20070417

Patent Details

Patent Number	Kind	1 Pgs a n	Draw	Filing Notes
WO 200103527	A1	E 52	11	

4			N		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW				
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW				
AU 200115914	A	E	N	Based on OPI patent	WO 2001035274
US 7216115	B1	E	N	Related to Provisional	US 1999164549
US 20070185850	A1	E	N	Related to Provisional	US 1999164549
				Continuation of application	US 2000707910
				Continuation of patent	US 7216115

### Alerting Abstract WO A1

**NOVELTY** - A list of **identifiers** and selected elements of at least one of the responsive records are displayed for a number of the responsive records. The list of **identifiers** and the selected elements are displayed simultaneously. The selected elements comprise the entirety of one of the responsive records or case citations. Records displayed in their entirety are **identified** and marked in a **prior search request**.

**DESCRIPTION** - .

INDEPENDENT CLAIMS are included for:

- A. an apparatus for displaying records responsive to **database query**
- B. a method of **sorting** a first set of records
- C. a method of **identifying** additions to a list of records

**USE** - In the field of **searching databases, sorting** and displaying results, and delivering records to **users**.

**ADVANTAGE** - More efficiently displaying, representing, **sorting**, and navigating such responsive records. Reduces the need to access the full text of records in order to determine whether the record is **relevant** to the **user's** research. Allows **users** to **sort** the list of such records, and by showing users which records they have already reviewed. Lists responsive records in a side panel while the user reviews the full text of any responsive record, allowing the user to jump forward or back a number of records at a **time** by allowing **users** to **re-sort** the list of responsive records in the side pane.

**DESCRIPTION OF DRAWINGS** - The drawing illustrates a flow diagram for a query in one embodiment of

the present invention.

**Title Terms /Index Terms/Additional Words:** DISPLAY; RECORD; RESPOND; DATABASE; QUERY; SEARCH; SORT; DELIVER; USER; SELECT; ELEMENT; ONE

**Class Codes**

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
<b>G06F-0017/30</b>	A	I		R	20060101
<b>G06F-0017/30</b>	A	I	F	B	20060101
<b>G06F-0017/30</b>	C	I		R	20060101
<b>G06F-0017/30</b>	C	I		B	20060101

US Classification, Issued: 707003000, 707003000, 715526000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-C04; T01-E01A; T01-J05B2; T01-J05B3; T01-J12B**

**Alerting Abstract** ...NOVELTY - A list of **identifiers** and selected elements of at least one of the responsive records are displayed for a number of the responsive records. The list of **identifiers** and the selected elements are displayed simultaneously. The selected elements comprise the entirety of one of the responsive records or case citations. Records displayed in their entirety are **identified** and marked in a **prior search request**. ... an apparatus for displaying records responsive to **database query** a method of **sorting** a first set of records a method of **identifying** additions to a list of records.... ... USE - In the field of **searching databases, sorting** and displaying results, and delivering records to **users**.... ... ADVANTAGE - More efficiently displaying, representing, **sorting**, and navigating such responsive records. Reduces the need to access the full text of records in order to determine whether the record is **relevant** to the **user's** research. Allows **users** to **sort** the list of such records, and by showing users which records they have already reviewed. Lists responsive records in a side panel while the user reviews the full text of any responsive record, allowing the user to jump forward or back a number of records at a **time** by allowing **users** to **re-sort** the list of responsive records in the side pane

**Class Codes International Patent Classification** IPC Class Level Scope Position Status Version Date **G06F-0017/30...** ...**G06F-0017/30 G06F-0017/30...**

...**G06F-0017/30** Manual Codes (EPI/S-X): **T01-C04...** ...**T01-E01A...** ...**T01-J05B2...** ...**T01-J05B3...**

...**T01-J12B** Original Publication Data by Authority **Original Abstracts:** An apparatus and method for simultaneously displaying both record names and the associated files responsive to a **user's** **search** over a **database**. A **user** conducts a routine **search query** over a **database** or group of **databases** of records containing, for example, text documents, or alphabetical **concordances** thereof. The **search** engine returns a list of records responsive to the **user's** **query**. In contrast to the standard list of record **identifiers**, the apparatus displays both the **identifiers** and selected portions of those records or other useful information, as defined by the user, facilitating quick review. The **user** is able to **sort** the list of these responsive records in a variety of ways, either **before** the **search**, or within the list of results, to expedite review. The apparatus **identifies** records that have been reviewed **previously** by marking them as "viewed" links. Finally, **when** reviewing any responsive record in full, the complete list of records is displayed in a side panel, in a way that

still allows resorting by the **user**. This side panel display may be re-sorted "on the fly." It also allows the **user** to see the **identifiers** of records anywhere in the list, and to easily jump, such as with a single mouse click, to any record in the list... ... An apparatus and method for simultaneously displaying both record names and the associated files responsive to a **user's search** over a **database**. A **user** conducts a routine **search query** over a **database** or group of **databases** of records containing, for example, text documents, or alphabetical **concordances** thereof. The **search engine** returns a list of records responsive to the **user's query**. In contrast to the standard list of record **identifiers**, the apparatus displays both the **identifiers** and selected portions of those records or other useful information, as defined by the **user**, facilitating quick review. The **user** is able to **sort** the list of these responsive records in a variety of ways, either **before the search**, or within the list of results, to expedite review. The apparatus **identifies** records that have been reviewed **previously** by marking them as "viewed" links. Finally, **when** reviewing any responsive record in full, the complete list of records is displayed in a side panel, in a way that still allows resorting by the **user**. This side panel display may be re-sorted "on the fly." It also allows the **user** to see the **identifiers** of records anywhere in the list, and to easily jump, such as with a single mouse click, to any record in the list... ... An apparatus and method for simultaneously displaying both record names (301) and the associated files responsive to a **user's search** (305) over a **database**. A **user** conducts a routine **search query** (305) over a **database** or group of **databases** of records containing, for example, text documents, or alphabetical **concordances**. The **search engine** returns a list of records responsive to the **user's query**. In contrast to the standard list of record **identifiers**, the apparatus displays both the **identifiers** and selected portions of those records (305) or other useful information, as defined by the **user**, facilitating quick review. The **user** is able to **sort** the list of these responsive records in a variety of ways, either **before the search**, or within the list of results, to expedite review. The apparatus **identifies** records that have been reviewed **previously** by marking them as "viewed" links. **When** reviewing any responsive record in full, the complete list of records is displayed in a side panel (301), that still allows the **user** to see the **identifiers** of records anywhere in the list, and to easily jump (307) with a single mouse click to any record in the list... ... recherche courante (305) sur une base de donnees ou un groupe de base de donnees d'articles contenant, par exemple, des documents-texte ou leurs **concordances** alphabetiques. En reponse a la demande d'utilisateur, le moteur de recherche renvoie une liste d'articles. Contrairement a la liste standard des **identificateurs** d'articles, l'appareil affiche tant les **identificateurs** que des parties choisies de ces articles (305) ou d'autres informations utiles, telles que definies par l'utilisateur, facilitant ainsi un examen rapide. Afin... ... l'utilisateur peut trier la liste de ces articles reactifs de differentes manieres, soit avant la recherche, soit dans la liste de resultats. L'appareil **identifie** les articles qui ont ete **precedemment** examines en les signalant comme liens "examines". Finalement, pendant l'examen exhaustif de n'importe quelle liste d'articles reactifs, la liste complete d'articles est affichee dans un affichage lateral (301), ce qui permet encore a l'utilisateur de voir les **identificateurs** des articles ou qu'ils se trouvent dans la liste et de **Claims:1**. A method for displaying records responsive to a **database query** where the records are characterized by having **identifiers** and **content** elements, said method comprising the steps of: performing said **database query** to select one or more records from a **database** or group of **databases**, **wherein** said one or more records selected by said performing of said **database query** comprise one or more responsive records; displaying a list of **identifiers** for a plurality of said records which are responsive to said **database query**; and displaying, simultaneously with said step of displaying a list of **identifiers**, **content** elements of at least one of said responsive records, **wherein** said list of **identifiers** and said selected elements are displayed simultaneously in separate respective areas of a display... ... **What** is claimed is:1. A method for displaying records responsive to a **database query** where the records are characterized by having **identifiers** and **content** elements comprising the steps of: performing said **database query** to select records from a **database**; displaying a list of **identifiers** for at least two of said records; displaying, simultaneously with said

step of displaying said list of **identifiers**, **content** elements of at least one of the records; and **identifying** records responsive to said database **query** that were displayed in their entirety in a **prior database query**.>

64/5, K/63 (Item 63 from file: 350) [Links](#)

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0013855440 *Drawing available*

WPI Acc no: 2004-033745/200403

XRPX Acc No: N2004-026826

**Automatic knowledge management system using Internet, identifies information resulting from search of information in wide field knowledge base, to store information that satisfies filtering conditions**

Patent Assignee: BRIDGEWELL INC (BRID-N)

Inventor: CHOU P

Patent Family (2 patents, 1 countries)

Patent Number	K	i n d	Application Number	K	i n d	Upda te	T y p e
US 20030220908	A	1 200311 27	US 2002150993	A	200205 21	2004 0 3	B
US 6915297	B	2 200507 05	US 2002150993	A	200205 21	2005 4 4	E

Priority Applications (no., kind, date): US 2002150993 A 20020521

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20030220908	A1	EN	14	6	

#### Alerting Abstract US A1

NOVELTY - A filter module (40) identifies information searched from wide field knowledge base, to store information that satisfies filtering conditions, into memory (12). A connection module (60) compares user search conditions and/or corresponding filtering conditions with prestored search/filtering conditions resulting from previous search operations, to provide information files and/or address of files to user.

USE - Automatic knowledge management system using Internet, intranet, extranet.

ADVANTAGE - Since the filter module filters information files that are not relative to search topic, the problem of junk documents is solved. Since the results of the automatic search are stored in the knowledge base memory, the search operation is conducted automatically. The user need not maintain his/her knowledge base from time to time. The user reads or utilizes the knowledge information files whenever necessary, therefore the design reduces costs and labors. The filter module provides learning ability. The users are

allowed to easily train the filter module into mature and personal information filter.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the automatic knowledge management system.

10 knowledge management module

12 memory

20 automatic search engine

40 filter module

60 connection module

**Title Terms /Index Terms/Additional Words:** AUTOMATIC; MANAGEMENT; SYSTEM; IDENTIFY; INFORMATION; RESULT; SEARCH; WIDE; FIELD; BASE; STORAGE; SATISFY; FILTER; CONDITION

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30; G06F-007/00			Main		"Version 7"

US Classification, Issued: 707003000, 707005000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-N01A2F**

**Class Codes** Manual Codes (EPI/S-X): **T01-N01A2F** Original Publication Data by Authority...**Claims:**module to compare the search conditions as input by one user for one search and/or the corresponding filtering conditions, with the respective groups of **search** conditions and/or their corresponding filtering conditions previously stored, and to provide to said one user information files and/or addresses of information files resulting

64/5, K/56 (Item 56 from file: 350) Links

Derwent WPIX

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0013918294 *Drawing available*

WPI Acc no: 2004-098054/200410

XRPX Acc No: N2004-078148

**Shipping information provision system for retailers and suppliers, generates transaction result with forecasted data related to shipping data, based on data retrieved from user profile and shipping information databases**

Patent Assignee: UNITED PARCEL SERVICE AMERICA (UNPA-N); UNITED PARCEL SERVICE INC (UNPA-N)

Inventor: KADABA N; SHROFF S

Patent Family (8 patents, 102 countries)

Patent Number	K	i n d	Application Number	K	i n d	Upda te	T y p e
US 200302366 88	A	1 200312 25	US 2002176467	A	200206 21	2004 1 0	B
WO 200400153 1	A	2 200312 31	WO 2003US17762	A	200306 06	2004 1 0	E
AU 200323890 2	A	1 200401 06	AU 2003238902	A	200306 06	2004 4 7	E
EP 1516270	A	2 200503 23	EP 2003734420	A	200306 06	2005 2 1	E
			WO 2003US17762	A	200306 06		
JP 200553106 3	W	200510 13	WO 2003US17762	A	200306 06	2005 6 8	E
			JP 2004515741	A	200306 06		
MX 200500019 1	A	1 200504 01	WO 2003US17762	A	200306 06	2005 7 1	E
			MX 2005191	A	200501 03		
CN 1692361			CN 2003817382			2006	

		02			06	1
AU 2003238902	A	8 200510 27	AU 2003238902	A	200306 06	2006 2 4 E

Priority Applications (no., kind, date): US 2002176467 A 20020621

Patent Details

Patent Number	Kind	IPgs a n	Draw	Filing Notes	
US 20030236688	A1	B 19 N	7		
WO 2004001531	A2	B N			
National Designated States, Ori ginal	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW				
Regional Designated States, Ori ginal	AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				
AU 2003238902	A1	B N	Based on OPI p atent	WO 200400153 1	
EP 1516270	A2	B N	PCT Applicatio n	WO 2003US177 62	
			Based on OPI p atent	WO 200400153 1	
Regional Designated States, Ori ginal	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR				
JP 2005531063	W	J 23 A	PCT Applicatio n	WO 2003US177 62	
			Based on OPI p atent	WO 200400153 1	
MX 2005000191	A1	B S	PCT Applicatio n	WO 2003US177 62	

				Based on OPI p atent	WO 200400153 1
AU 2003238902	A8	R	N	Based on OPI p atent	WO 200400153 1

### Alerting Abstract US A1

**NOVELTY** - A shipping information **database** (15) **stores** parcel **identification** data, **address** data and parcel delivery **date**. A user **profile database** (35) **stores** access authorization **parameter** data and shipping **location** data. A processor generates a transaction result including forecasted data **related** to the shipping **data**, **based** on the data extracted from the **databases**, economic growth data and marketing data.

**DESCRIPTION** - INDEPENDENT CLAIMS are also included for the following:

1. method of providing shipping information; and
2. apparatus for providing shipping information.

**USE** - For providing shipping information to retailers and suppliers for providing them with insight regarding growth area, trends and sales volumes.

**ADVANTAGE** - Enhances the utility of shipping data by allowing users to augment the **database**.

**DESCRIPTION OF DRAWINGS** - The figure shows the block diagram of the shipping information provision system.

15 shipping information **database**

18 tracking **database**

30 statistical information **database**

35 user **profile database**

50 business intelligence system

60 shipping information transaction result

**Title Terms /Index Terms/Additional Words:** SHIPPING; INFORMATION; PROVISION; SYSTEM; SUPPLY; GENERATE; TRANSACTION; RESULT; DATA; RELATED; BASED; RETRIEVAL; USER; PROFILE

### Class Codes

#### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F; G06F-017/60			Main		"Version 7"

US Classification, Issued: 705006000, 705001000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B4P; T01-N01A2E

**Shipping information provision system for retailers and suppliers, generates transaction result with forecasted data related to shipping data, based on data retrieved from user profile and shipping information databases Alerting Abstract** ... **NOVELTY** - A shipping information **database** (15) **stores** parcel **identification** data, **address** data and **parcel delivery date**. A **user profile database** (35) **stores** access authorization **parameter** data and **shipping location** data. A processor generates a transaction result including forecasted data **related to the shipping data, based on the data extracted from the databases**, economic growth data and marketing data. ... **ADVANTAGE** - Enhances the utility of shipping data by allowing users to augment the **database**.... ... 15 shipping information **database** 18 tracking **database** 30 statistical information **database** 35 **user profile database** **Title Terms** .../Index Terms/Additional Words: **RELATED**; ... . . . **PROFILE Class Codes International Patent**

Classification IPC Class Level Scope Position Status Version Date **G06F**;  
**G06F-017/60** Main Manual Codes (EPI/S-X): **T01-J05B4P**... . . . **T01-N01A2E**

Original Publication Data by Authority... **Original Abstracts**: that utilizes shipping information to provide business intelligence to a user. The business intelligence system receives information pertaining to originating parcel pickup and delivery information, **stores** the information in a shipping information **database**, and allows a **user** to formulate various types of transaction **requests**. The transaction results **provide** shipping information **categorized** in various ways **in** regard to **past** shipments as well **as** compare one **category** shipping information with **another category** of shipping information **or** with **categories** of non-shipping **information**. In addition, the system can extrapolate certain **categories** of shipping information **into** the future. Further, the system provides information to a user in a variety of formats including various graphical formats, tabular formats, and cartographical formats... . . . that utilizes shipping information to provide business intelligence to a user. The business intelligence system receives information pertaining to originating parcel pickup and delivery information, **stores** the information in a shipping information **database**, and **allows** a **user** to formulate various types of transaction **requests**. The transaction results provide shipping information **categorized** in various ways **in** regard to **past** shipments **as** well **as** compare one **category** shipping **information** with **another category** of shipping information **or** with **categories** of non-shipping **information**. In addition, the system **can** extrapolate certain **categories** of shipping information **into** the future. Further, the **system** provides information to a **user** in a variety of formats including various graphical formats, tabular formats, and cartographical formats... . . . that utilizes shipping information to provide business intelligence to a user. The business intelligence system receives information pertaining to originating parcel pickup and delivery information, **stores** the information in a shipping information **database**, and **allows** a **user** to formulate various types of transaction **requests**. The transaction results provide shipping information **categorized** in various ways **in** regard to **past** shipments **as** well **as** compare one **category** shipping **information** with **another category** of **shipping** information **or** with **categories** of non-shipping **information**. In addition, the **system** can extrapolate certain **categories** of **shipping** information **into** the future. Further,

the system provides information to a **user** in a variety of formats including various graphical formats, tabular formats, and cartographical formats...  
... de livraison et permet a un utilisateur de formuler divers types de demandes de transaction. Les resultats de la transaction fournissent des informations de livraison **categorisees** de differentes manieres par rapport a des livraisons anterieures et par comparaison des informations de livraison d'une **categorie** avec une autre **categorie** d'informations de livraison ou avec des **categories** d'informations de non-livraison. De **plus**, le systeme peut **extrapoler** certaines **categories** futures d'informations de livraison. Le systeme fournit egalement des informations a un utilisateur dans une palette de **formats**, notamment divers formats graphiques, tabulaires et cartographiques.

**Claims:What is claimed:** 1. A business information system accessible by a **user** of shipping services and incorporating shipping information, comprising: a shipping information **database** associated with shipped parcels, comprising origination address information, destination address information, parcel identification information, and parcel date of delivery; a user profile information database comprising information of a plurality of shipping locations and access **authorization parameter information**; and a processor that receives a **user request** for business information involving a plurality of shipping **locations**, and generates in response thereto, a transaction result based at least partially on data retrieved from said **user profile** information **database** and said shipping information **database**, and communicates said transaction result to a **user**.

>Basic Derwent Week: 200410